208th OMICS Group Conference

Scientific Program

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3rd International Conference on
Hydrology & Meteorology

September 15-16, 2014 Hyderabad International Convention Centre, India



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Day 1 September 15, 2014

09:00-10:00 Registrations

MR G.05 & G.06

10:00-10:25 **Opening Ceremony**

Keynote Forum

10:25-10:30 **Introduction**

10:30-10:55 **Mohiuddin Ali Khan**
Temple University, USA

10:55-11:20 **Z Fuat Toprak**
Dicle University, Turkey

Felicitation to Organizing Committee

Group Photo & Coffee Break 11:20-11:35

Track 1: Hydrology
Track 2: Hydrogeology

Session Introduction

Session Chair: Mohiuddin Ali Khan, Temple University, USA
Session Co-Chair: Shakeel Ahmed, CSIR-National Geophysical Research Institute, India

11:35-11:55 **Tittle: Application of hydrological and water table data for preparing water budget model for Mahi-Narmada inter-stream area, Gujarat**
N Sharma & Sumit Dabral, NHPC Ltd, Tawang HE Project Stage-I, Auranachal Pradesh

11:55-12:15 **Tittle: Optimization of phenol adsorption onto gastropod shell dust using response surface methodology (RSM)**
Naba Kumar Mondal, The University of Burdwan, India

12:15-12:35 **Tittle: Effluent treatment by microbes isolated from handmade paper industrial effluent**
Shweta Kulshreshtha, Amity University, India

12:35-12:55 **Tittle: Impact of climate change in the non-glacial fed Himalayan river system-A case study from the Kosi river in district Almora, Uttarakhand State (India)**
J S Rawat, Kumaun University, India

Lunch Break 12:55-13:40 @ Foyer

13:40-14:00 **Tittle: Understanding the Terrestrial Ecohydrological Complexity: Integrating Remote Sensing, Modeling and Observations**
Ajit Govind, National Institute of Agricultural Research, France

14:00-14:20 **Tittle: On some transport phenomena problems in porous media flow**
Pradyumna Ghosh, Indian Institute of Technology, Varanasi, India

14:20-14:40 **Tittle: Changes of terrestrial water storage from GRACE-derived gravity records in India**
Dileep Panda, ICAR, India

14:40-15:00 **Tittle: Geospatial techniques for identifying the paddy cultivated areas of agro-climatic region-VI of India**
Ranu Rani Sethi, ICAR, India

15:00-15:20 **Tittle: Dynamics of livestock sectors and challenge of water resource**
Nizamuddin Khan, Aligarh Muslim University, India

15:20-15:40 **Tittle: Optimization of pumping rates to minimise salt water intrusion in gurpur- pavanje aquifer system using coupled ANN- GA Model**
Annie Maria Issac, Amal Jyothi College of Engineering, India

Coffee Break 15:40-15:55 @ Foyer

15:55-16:15 **Tittle: Impact of fluoride on intelligence of some school going children in Barkagaon, Hazaribag, Jharkhand, India**
D N Sadhu, Vinoba Bhave University, India

16:15-16:35 **Tittle: Some critical aspects to consider in recharge assessment in limestone (karst) aquifers**
Farooq Ahmad Dar, CSIR-National Geophysical Research Institute, India

16:35-16:55 **Tittle: Hydrochemistry, ground water geophysics and water supply position in bin block, pithoragarh district (Uttarakhand)**
Debasish Bagchi, Central ground water board, Dehradun, India.

16:55-17:15 **Title: Geohydrological studies in NE fringe of Thar Desert, Mahendragarh District, Haryana, India**
Sreemati Gupta, Geological Survey of India, Haryana, India

MR G.04

Track 3: Geosciences and Geophysics
Track 4: Water Pollution & Waste Water Treatment

Session Introduction

Session Chair: R K Trivedy, University of Pune, India
Session Co-Chair: Kishore Kadimpati, Mallareddy College of Pharmacy, India

11:35-11:55	**Tittle: Water hyacinth eco-technology for wastewater treatment worldwide** **R K Trivedy,** University of Pune, India
11:55-12:15	**Tittle: Evaluating coastal erosion and deposition using Remote Sensing and GIS - A case study on Tranquebar coast, Tamil Nadu, INDIA** **E Saranaathan,** Sastra University, India
12:15-12:35	**Tittle: Hydrograph simulation for a rural watershed using SCS curve number and Geographic Information System** **S Suriya,** B.S. Abdur Rahman University, India
12:35-12:55	**Tittle: Geophysically constrained hydraulic conductivity estimation in crystalline hard rocks** **Shakeel Ahmed,** CSIR-National Geophysical Research Institute, India

Lunch Break 12:55-13:40 @ Foyer

13:40-14:00	**Tittle: Nature inspired clustering algorithms for analysis of natural databases** **Satyasai Jagannath Nanda,** Malaviya National Institute of Technology, India
14:00-14:20	**Tittle: Hydrological studies of metal contaminated lakes of Bangalore city, Karnataka** **Bela Zutshi,** Bangalore University, India
14:20-14:40	**Tittle: A study on role of water in context of vedic studies** **Govardhan Bhat,** National Institute of Technology Raipur, India
14:40-15:00	**Tittle: Zero Emission from industrial waste water using green solvent: Experiment and quantum chemical calculations** **Anantharaj Ramalingam,** University of Malaya, Malaysia
15:00-15:20	**Tittle: Structural alterations by accumulation of heavy metal pollutants in scales of different fish species from Harike wetland (Ramsar site), India** **Onkar Singh,** Punjabi University, India
15:20-15:40	**Tittle: Spatial and temporal variation of contaminants: Source sink and management** **Sutapa Rai,** Indian Institute of Science Education and Research (IISER) Kolkata, India

Coffee Break 15:40-15:55 @ Foyer

15:55-16:15	**Tittle: Kinetics of biodegradation of sewage due to addition of chlorides** **Akhilendra Gupta,** Malaviya National Institute of Technology, Jaipur, India
16:15-16:35	**Tittle: Potential use of Sargassum cinereum biomass for removal of lead: Kinetics, Isotherms, Thermodynamic and characterization Studies** **Kishore Kadimpati,** Mallareddy College of Pharmacy, India
16:35-16:55	**Tittle: Effect of iron and magnesium availability on bacterial growth and inactivation by chlorine** **Bandana Mahto,** Birla Institute of Technology, Patna, India
16:55-17:15	**Tittle: Assessment of Heavy metal pollution in Tapi River (Gujarat)** **Monika Dubey,** Veer Narmad South Gujarat University, India
17:15-17:35	**Tittle: Fluoride and Fluorosis extension in India with Special reference to Rajasthan State** **R N Yadav,** Govt. R. R. Post Graduate autonomous College, Alwar, India

Panel Discussion

Day 2 September 16, 2014

MR G.05 & G.06

Track 5: Watershed Studies
Track 6: Meteorology
Track 7: Oceanography
Track 8: Emerging Focus in Hydrology Research

Session Introduction

Session Chair: J S Rawat, Kumaun University, India
Session Co-Chair: Z Fuat Toprak, Dicle University, Turkey

10:00-10:20	**Tittle: Comparative study and improvement of shallow-Water models** **Rajendra K Ray,** Indian Institute of Technology, Himachal Pradesh, India
10:20-10:40	**Tittle: Financial comparison of the Kyoto protocol obligations and the natural disasters losses (a key study for U.S.)** **Murat Batan,** Batman University, Turkey

10:40-11:00 **Tittle: Hydrometeorology, environment and sustainable development of water resources in the Himalayan region**
MS Rawat, Central University of Nagaland, India

Coffee Break 11:00-11:15 @ Foyer

11:15-11:35 **Tittle: A Study of phytoplankton communities and related environmental factors off Ratnagiri sea coast**
Madhura Mukadam, Gogate Jogalekar College, India

11:35-11:55 **Tittle: Assessment of metal status and mapping of ecological risk using GIS in Thane coastal marine environment, Maharashtra, India**
Vennila A, Central Institute of Fisheries Education, Mumbai, India

11:55-12:15 **Tittle: Modeling phytoplankton diversity and dynamics due to altered niche dimensions caused by Cultural eutrophication**
Biswarup Mukherjee, Ranchi University, India

12:15-12:35 **Tittle: Saptio-temporal evaluation of coastal pollution of Chennai city, India**
Pravakar Mishra, ICMAM Project Directorate, Chennai, India

12:35-12:55 **Tittle: Biodiversity study of Bhatsa river in Kalyan taluka at Maharashtra for creating repository and bio-resource conservation**
Snehal Donde, Mumbai University, India

12:55-13:15 **Tittle: Integrated river basin management in Western ghat region through a case study**
Anitha A B, Centre for Water Resources Development and Management, Kerala, India

Lunch Break 13:15-14:00 @ Foyer

14:00-14:20 **Tittle: Development of mathematical model of river Gomti: Assessment and prediction of water quality**
Pramod Kumar Singh, Babu Banarasi Das University, India

14:20-14:40 **Tittle: The State of Ponds of Manipur Valley**
Kshetrimayum Krishnakanta Singh, Assam University, India

14:40-15:00 **Tittle: Impact of climatic vulnerabilities on Indian mountain rivers**
Rabindra Nath Barman, National Institute of Technology, Agartala, India

15:00-15:20 **Tittle: Performance and emission analysis of 1.5 MW Photovoltaic energy systems**
Md.Fahim Ansari, JK Laxmipat University, India

15:20-15:40 **Tittle: Investigating an association between sunspot numbers and summer-monsoon rainfall in India**
Surajit Chattopadhyay, Pailan College of Management and Technology, India

Coffee Break 15:40-15:55 @ Foyer

MR G.04

Young Research Forum

Panel Judges: R K Trivedy, University of Pune, India,
Shakeel Ahmed, CSIR-National Geophysical Research Institute, India
Ajit Govind, National Institute of Agricultural Research, France

10:00-10:10 **Tittle: Investigation of sensitivity of popular training methods to initial weights in ANN rainfall-runoff modeling**
Vikas Kumar Vidyarthi, IIT Kanpur, India

10:10-10:20 **Tittle: Comparative study of ARIMA, Thomas Fiering and ANN models for streamflow generation of intermittent river for Narmada River basin**
Ila Dashora, IIT Roorkee, India

10:20-10:30 **Tittle: Water Contamination Index - Important tools for groundwater quality assessment**
Poornima Verma, ISM Dhanbad, India

10:30-10:40 **Tittle: Quality Assessment of mine water in the west bokaro coalfield area, India**
Ashwani Kumar Tiwari, Indian School of Mines, Dhanbad, India

10:40-10:50 **Tittle: Study of micro irrigation in soil less media for tomato in polyhouse cultivation**
Barikara Umesha, University of Agricultural Science, Raichur, Karnataka, India

10:50-11:00 **Tittle: Application of water quality index for ground water quality assessment in mining talukas of Goa**
Rakesh Kant Kamal, ISM Dhanabad, India

11:00-11:10 **Tittle: Groundwater pollution management using Simulation-Optimization models**
Swathi Boddula, IIT Bombay, India

11:10-11:20 **Tittle: Movement of Arsenic in amon(monsoon) rice plants cultivated on Arsenic contaminated agricultural fields of Nadia district, West Bengal**
Anil Barla, IISER Kolkata, India

Coffee Break 11:20-11:35 @ Foyer

11:35-11:45 **Tittle: Role of Hydrogeochemistry in the release of arsenic in 24 Parganas districts, West Bengal**
Neha Singh, Jawaharlal Nehru University, India

11:45-11:55 **Tittle: Amino functionalised bentonite as a potential adsorbent for heavy metal removal from aqueous system**
Kumararaja Periyamuthu, Central Institute of Brackishwater Aquaculture, Chennai, India

11:55-12:05 **Tittle: Assessing feasibility of limestone Aquifer for Managed Aquifer Recharge**
Taufique Warsi, CSIR- National Geophysical Research Institute, Hyderabad, India

12:05-12:15 **Tittle: Status of ground water contamination by land filling of coal combustion residue- An overview**
Radha Rani, ISM Dhanbad, India

12:15-12:25 **Tittle: Optimizing electrocoagulation-filtration for nitrate removal from drinking water - tracer and other studies**
Kruttika R Apshankar, IIT Kharagpur, India

12:25-12:35 **Tittle: Effect of fluorde on health of teeth of school children In barkagaon, Hazaribag, Jharkhand, India**
Rajendra Kumar, Vinoba Bhave University, India

12:35-12:45 **Tittle: Removal of heavy metals from drinking water using coconut husk**
Sneh Lata, ISM Dhanbad, India

12:45-12:55 **Tittle: Flow visualization of pollutant mixing in freshwater body near the density maximum**
Malay Goel, CSIR-NEERI, Nagpur, India

12:55-13:05 **Tittle: Variations in natural water availability due to increasing built-up area induction in urbanization- A Case of Bhopal, INDIA**
Ar.Sheetal Sharma, MANIT Bhopal, India

13:05-13:15 **Tittle: Geophysical Loom for deducing 3-D Structure of palaeo-channels in Middle Ganga Plain (MGP), Bihar, India**
Rakesh Kumar Tiwari, CSIR-National Geophysical Research Institute, Hyderabad, India

Lunch Break 13:15-14:00 @ Foyer

14:00-14:10 **Tittle: Study of Runoff characteristics of a Micro Watershed in Sundarban, West Bengal**
Smita Kujur, Bidhan Chandra Krishi Viswavidyalaya Regional Research Station, West Bengal, India

14:10-14:20 **Tittle: Meteorological parameter estimation using field monitored data and its comparison with prognostic model generated parameters for source dispersion modelling**
M.N.V.Anil, National Environmental Engineering Research Institute, Maharastra, India

14:20-14:30 **Tittle: Spatio-temporal rainfall analysis for crop planning in Barak Valley of North East of India**
Hillolmoy Chakraborty, Assam University, India

14:30-14:40 **Tittle: Investigation of rainfall trend in Jorhat town, Assam**
Mayurakshi Bhuyan, North-Eastern Hill University, India

14:40-14:50 **Tittle: Interannual variability of salinity profiles from Argo in the Bay of Bengal**
Kumar Ravi Prakash, Indian Institute of Technology Delhi, India

14:50-15:00 **Tittle: Coastal upwelling features in the Arabian sea from ROMS model**
Tanuja Nigam, Indian Institute of Technology Delhi, India

15:00-15:10 **Tittle: Simulation of thermohaline and circulation features in the North Indian Ocean**
Sandeep, Indian Institute of Technology Delhi, india

15:10-15:20 **Tittle: Air Quality assessment and management in Iron Ore mining region of Goa**
Atahar Perwez, ISM, Dhanbad, India

15:20-15:30 **Tittle: Indoor air quality in municipality schools in Mumbai**
Namrata Rasal, NIT Warangal, India

15:30-15:40 **Tittle: Hydrological, agricultural and environmental surveys of Lava and Rishop: Two ecologically important hamlets of North Bengal, India**
Sayan Bhattacharya, Rabindra Bharati University, India

15:40-15:50 **Tittle: The influence of atmospheric deposition and land surface runoff on carbon and nutrients loading to ganga river**
Anand V Singh, Banaras Hindu University, India

Coffee Break 15:50-16:05 @ Foyer

16:05-16:15 **Tittle: Wastewater production, treatment and use in India**
Anurodh Dayal, CSIR-National Geophysical Research Institute, Hyderabad, India

16:15-16:25 **Tittle: Arsenic and other heavy metals contamination in shallow groundwater of Chakdhah Block, West Bengal, India**
Anamika Shrivastava, IISER Kolkata, India

16:25-16:35 **Tittle: Seasonal variation and diversity of phytoplankton in Arekurahatti lake of Navalgund, Dharwad district in Karnataka-India**
Ratna V Airsang, Karnataka University, India

16:35-16:45 **Tittle: Spatial and Temporal Variations in Marine Litter (2013-2014) along the selected beaches of Gulf of Mannar, Southeast coast of India**
B Ramkumar, Madurai Kamaraj University, India

16:45-16:55 **Tittle: Hydrological Potentials of Hyper Arid Lands in the Indian Desert**
Sahila Salahuddin, Aligarh Muslim University, India

16:55-17:05 **Tittle: Estimation of Urban Heat Island Intensity in the Megacity of Hyderabad**
Ghazal Salahuddin, Aligarh Muslim University, India

Poster Presentations @ Foyer
Day 1 15:30-16:30

HM-001 **Tittle: Analysis of efficient methods of water production using renewable Energy based reverse osmosis desalination process and its applications In India**
Shanthi Saravana, Anna University, Chennai, India

HM-002 **Tittle: A geological peer review of intermontane Manipur valley, NE India for delineating major hydrogeological issues**
Laishram Premananda Singh, Assam University, India

HM-003 **Tittle: Structural Alterations by Accumulation of Heavy Metal Pollutants in Scales of Different Fish Species from Harike Wetland (Ramsar site), India**
Sulochana, Punjabi University, India

HM-004 **Tittle: Water Quality Assessment of Ranjit Sagar Wetland (National Wetland), Punjab, India**
Hardial Singh, Punjabi University, India

HM-005 **Tittle: Ecological, physiological and biochemical effects of Climate Change and Ocean Acidification on Coral Reefs in Topics**
Ayantika Banerjee, University of Calcutta, India

HM-006 **Tittle: Environmental, ecological and hydrological effects of climate change on Himalayan Glaciers**
Avishek Talukdar, University of Calcutta, India

HM-007 **Tittle: Effects of idol immersion in the water quality parameters of Indian water bodies: Hydrological, ecological and health perspectives**
Abhishek Dutta, Rabindra Bharati University, India

HM-008 **Tittle: The effects of climate change on hydrological system of Sundarbans**
Debayan Purkait, University of Calcutta, India

HM-009 **Tittle: Effect of climate change on Indian irrigation system**
Arkajyoti Shome, University of Calcutta, India

HM-010 **Titlle: Regional Analysis of Pipe Network in EPANET**
Ajay V Joseph, Amal Jyothi College of Engineering, Kerala, India

HM-011 **Tittle: Seasonal water quality analysis of chittar Stream**
Renjana Mathew, Amal Jyothi College of Engineering, Kerala, India

HM-012 **Tittle: Microbial extraction of nickel from Sukinda chromite overburden bychemolithotrophicmicro organisms**
Kalyani Nayak, IISER Kolkata, India

HM-013 **Tittle: Marine cyanobacteria mediated calcification of ossein effluent towards bioremediation**
Uma V S and Dinesh Babu, Bharathidasan University, India

HM-014 **Tittle: Application of Rain Water Harvesting scheme in Shimla Region**
Abhinav Bansal, Jaypee University of Information Technology, India

HM-015 **Tittle: Present status of lakes in Bangalore important for recharging the groundwater level**
Nazima Noor, Bangalore University, India

HM-016 **Tittle: Water quality assessment of Nangal Wetland (National Wetland), Punjab, India**
Rajwinder Kaur, Punjabi University, India

HM-017 **Tittle: Lead induced histopathological alterations in the gills of Labeo rohita (Hamilton- Buchanan)**
Manjeet Kaur, Department of Zoology and Environmental Sciences, Punjabi University, India

HM-018 **Tittle: Water Quality Assessment of Ranjit sagar wetland (National Wetland), Punjab, India**
Sunil Kumar, Punjabi University, India

HM-019 **Tittle: A review of hydrogeological studies of Barak valley, Assam, India**
Surjen Sorokhaibam, Assam University, India

HM-020 **Tittle: Impact of mining activities on Ground Water Resources of Jharia, Dhanbad, India**
Binay Panigrahy, Indian School of Mines, Dhanbad, India

HM-021 **Tittle: 'Adapt or die' only two forceful options for aquatic animals due to Barrage across Godavari River at Babhli, Dist. Nanded, Maharashtra**
Shivaji Chavan, Swami Ramanand Teerth Marathwada University, India

HM-022 **Tittle: Prospects of water bodies pollution in India**
Sandya Rani, Acharya N G Ranga Agricultural University, India

HM-023 **Tittle: Disposal of plastics waste in aquatic environment: Mitigation strategies in climate change perspective**
Vartika Agarwal, University of Lucknow, India

Closing Ceremony

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