

ICWRDM 2008

October 23, 2008

Inaugural Session Time: 9.30 am Venue: Lecture Theatre 5104

Convention Theme: Dr. Ajit Pratap Singh, Organising Secretary

Introduction of Water Related Activities organised by the Civil Engineering Group: Prof. Rajiv Gupta, Dean, ESD, BITS Pilani

Welcome Address: Prof. R.K. Mittal, Deputy Director (Admn.), BITS, Pilani

Address by the Chief Guest: Prof. L.K. Maheswari, Vice Chancellor, BITS, Pilani

Keynote Address by the Guest of Honour

Prof. Adar Eilon, Director, Zuckerberg Institute for Water Research – ZIWR, The J. Blaustein Institutes for Desert Research, Ben Gurion University of the Negev, Israel
(Sustainable Water Supply and Progressive Water Resources Development in the Era of Climate Change)

Award to VC by ISHEER, Jodhpur

Vote of Thanks : Dr. Anupam Singhal, Jt. Organising Secretary

Tea Break and Photo Session: 10.30 am to 11.00 am
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<i>Presentation on BITS Education System by Prof. G. Raghurama, Deputy Director (Acad.), BITS, Pilani</i>	<i>Venue:5104 Time: 11:00 am to 11.30 am</i>
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<i>Technical Session – I</i>	<i>Venue: 5104</i>	<i>Time: 11.30 pm to 1.00 pm</i>
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**Theme: Water Resources Development and Management I:
Alternate Water Resources**

**Chair: Dr. Gordon Stanger, EC State Partnership Programme –
Rajasthan, Team member, Australia and Dr. A.S. Patel, Head,
Civil Engineering Department, M.S. University of Baroda**

1. Ms. V. Meera, Department of Civil Engineering, Government Engineering College, Thrissur and **Dr. M. Mansoor Ahammed**, Civil Engineering

- Department, S V National Institute of Technology, Surat, Gujrat, **Health Risk Associated with Roof-Harvested Rainwater**
2. **Dr. L.N. Mathur**, Central Ground Water Board, Western Region, Jaipur, Rajasthan, **Artificial Recharge of Alluvial Aquifers in Arid and Semiarid Areas: A Case Study in Govindgarh Block of Jaipur District, Rajasthan, India**
 3. **Dr. Rajan Aggarwal**, Department. of Soil and Water Engineering, Punjab Agriculture University, Ludhiana, Punjab, **Rooftop Rainwater Harvesting for Groundwater Recharge-Need and Potential in Punjab**
 4. **Mr. Rabidyuti Biswas**, Dr. Deepak Khare and Prof. R. Shankar, Department of Arch. and Planning, IIT Roorkee, Roorkee, Uttarakhand, **Alternative Approaches for Urban Water Management**
 5. **Dr. Narayana Shenoy K**, Department of Civil engineering, Manipal Institute of Technology, Manipal, Karnatka, **A Study on Traditional Water Harvesting Tanks in Ancient City Barkur, Udupi District, Karnataka State**
 6. **Mr. Ganesha A**, Mr. Udayashankar H.N., and Mr. Mohandas Chadaga, Department of Civil Engineering, Manipal Insitute of Technology, Manipal, Karnatka, **Waste Water Recycle, Reuse and Rain Water Harvesting-A Case Study**
 7. **Prof. Arya Kumar**, Entrepreneurship Development & IPR Unit, BITS, Pilani, Rajasthan, **Financial Viability of Rain Water Harvesting: A Case Study of a Village in Rajasthan**
 8. **Dr. S. K. Rautaray**, Regional Rainfed Lowland Rice Research Station, Central Rice Research Institute, Gerua, Kamrup, Assam, and Dr. D.P. Sinhababu, Central Rice Research Institute, Cuttack, Orissa, **Integrated rice-fish farming system as water and nutrient harvesting structure for yield stability under rainfed lowland situation in Assam**
 9. **Sh. Veerappan J**, Department of Electronics and Communication Engineering, K.L.N College of Engineering,, Pottapalayam, Tamilnadu, **Fiber Plastic Bed Rainwater Harvesting Plants to Solve Water Scarcity Problem in Drylands**

Technical Session – II

Venue: 5103

Time: 11.30 pm to 1.00 pm

Theme: Water Resources Development and Management II: Water Quality Management

Chair: Prof. Mohammad Jawed, Associate Professor, Department of Civil Engineering, Indian Institute of Technology Guwahati and Dr. A. K. Agarwal, Sr. Scientist, Environmental Science and Technology Division, Central Building Research Institute, Roorkee

1. Ms. Aditi Sharma, **Prof. S. P. Chaurasia** and Prof. A. B. Gupta, Malaviya National Institute of Technology, Jaipur, Rajasthan, **Arsenic in Drinking Water: An Emerging Challenge**

2. Mr. Sudheer Kumar Shukla, **Mr. Manoj Kumar Agarwal** (Department of Chemistry Accurate Institute of Technology, Greater Noida), Dr. Vivek Kumar, and Mr. M. C. Bansal, Department of Paper Technology, Indian Institute of Technology, Roorkee, Saharanpur Campus, U.P., **Membrane Filtration (UF, NF) for the Closure of Bleaching Plant Effluent**
3. **Mr. Pawan Rose**, Ms. Asha Gupta, Mr. Manjeet Bansal (Department of Civil Engineering NIT, Kurukshetra) and Mr. Anoop Yadav, Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, **Biosorption of Ni (II) from Aqueous Solutions by Non-Living Biomass of Aspergillus Niger**
4. **Mr. Manjeet Bansal** and Mr. Diwan Singh, Department of Civil Engineering, NIT, Kurukshetra, Mr. Pawan Rose and Prof. V.K. Garg, Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, **Hexavalent Chromium Removal from Aqueous Systems using Rice Husk Carbon**
5. **Dr. Anupam Singhal**, Civil Engineering Group, Birla Institute of Technology, Pilani-333031, Rajasthan, Prof. Satya Prakash, Professor, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Roorkee, Prof. V. K. Tewari, Vice Chancellor Utrakhnad Technical University, Dehradun, **A Laboratory study on recovery of Chromium from effluent treatment plant sludge of an Electroplating Unit**
6. Mr. Sushil Kumar and **Prof. B. V. Babu**, Chemical Engineering Group, BITS, Pilani, **Separation of Carboxylic Acids from Waste Water via Reactive Extraction**
7. **Ms. Beena Janveja**, Department. of Chemistry, K.L. Mehta Dayanand College for Women, Faridabad, Dr. Jyoti Sharma, Department of Chemistry, Raj. Rishi. College, Alwar, K. Kant, Dept. of Physics, K.L.Mehta Dayanand College for women, Faridabad and K.K. Chaturvedi, Dy. Director, Directorate of Higher Education, Jaipur, **A Comparative Study on the Removal of Congo Red Dye from the Water Solutions Using Charcoal Prepared from Rice Husk and Activated Charcoal**
8. Mr. Ravi Dhabhai, Ms. Kriti Bhandari and **Prof. S. P. Chaurasia**, Malaviya National Institute of Technology, Jaipur, Rajasthan, **Membrane Bioreactor for Waste water Treatment: A Promising Technology**

LUNCH	Venue: BITS Student's Canteen	Time: 1.00 pm to 2.30 pm
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Plenary-I

Venue:5104

Time: 2.30 pm to 3.00 pm

Dr. Gordon Stanger, EC State Partnership Programme – Rajasthan, Team member, Australia: **Prospects for Integrated Water Resources Management in Rajasthan**

Theme: Water Resources Development and Management III: Groundwater, Surface Water, Interbasin Transfer and Water Supply Management

Chair: Dr. Issa Piri, Payame Noor University – Zahedan- IRAN and Prof. Shamsheer Bahadur Singh, Group Leader, Civil Engineering Group, BITS Pilani

1. **Dr. U.K. Behera, A.R. Sharma and P.K. Ghosh**, Division of Agronomy, Indian Agricultural Research Institute, New Delhi, **Multiple use of water for higher productivity through diversified farming systems**
2. **Mr. P. S. Pawar and Dr. R. K. Singh**, Department of Natural Resources Management, TERI University, New Delhi, **Technological challenges for water allocation for agriculture: Emphasis on evapotranspiration estimation for tropic crops**
3. **Dr. Rakhi Chaudhary**, and **Nidhika Birla**, Haryana Engineering College, Jagadhri, Haryana, **Intelligence in Groundwater Monitoring**
4. **Dr. Y.P. Mathur and Mr. S. J. Nikam**, Malaviya National Institute of Technology, Jaipur, **Review of Optimal Reservoir Operation Policies with Special Reference to Upper Wardha Project**
5. **Dr. Y.P. Mathur and Ms. Shashi Choudhary**, Department of Civil Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, **Techno-Economic Consideration of Long Distance Water Transmission with Special Reference to Bisalpur –Jaipur Water Supply Project**
6. **Prof. Y.P. Mathur, Dr. Gunwant Sharma and Mr. A.W. Pawde**, Civil Engineering Department, Malaviya National Institute of Technology, Jaipur, Rajasthan, **Critical Review of Optimal Scheduling Algorithms of Irrigation Distribution System**
7. **Dr. Ratul Das**, Civil Engineering Department, NIT Agartala, Tripura, **Impact of Urbanization on Rainfall-Runoff Response and an Integrated approach for Urban Storm water Drainage systems of Central Agartala-A case study**
8. **Mr. Mohsen Maleki** and **Ms. Marzieh Mosayebi**, Islamic Azad University, Khalkhal branch, Iran, **Iran: Brilliant History in Water Management and Supply**

Theme: Water Resources Development and Management IV: Water Quality Management

Chair: Sh. Pradip S. Bhattacharyya, Director, India Technology Centre, ITT Corporation India Pvt. Limited, Vadodara and Prof. Ravi Prakash, Dean, Reserch and Consultancy Division, BITS, Pilani

1. **Dr. Hosam Elemam**, Senior Researcher - Bergen University, Norway, **Water quality management in Egypt**
2. **Dr. D. D. Ozha**, K.M. Mathur and U.K. Mathur, Groundwater Department, Jodhpur, **Quality of Drinking Water in Desert Zone of Rajasthan and its Management for Socio-Economic Development**
3. Mr. Iman Homayoonnezhad and Dr. Issa Piri, Sistan and Balouchestan University of Payam Noor, Zahedan and **Ms. Paria Amirian**, Sustainable Development and Environment Research Center, Shiraz University, Shiraz, Iran, **Investigation on Water Quality of Zabol Chah-Nimeh Reservoirs: The Effective Means for Development of Water Management of Sistan & Baloochestan Province, Iran**
4. **Mr. Gaurav Kumar Rastogi**, Department of Chemistry, Sunder Deep Engineering College, Ghaziabad, U.P., Prof. D.K. Sinha and Mr. N. Kumar, Department of Chemistry, K.G.K. (P.G.) College, Moradabad: **Ground Water Quality Management through Statistical Regression Analysis**
5. **Dr. Jyoti Sharma**, Department of Chemistry, Raj. Rishi. College, Alwar, Rajasthan, K.K. Chaturvedi, Dy. Director, D. H. E., Jaipur and Ms. Beena Janveja, Dept. of Chemistry, K.L.Mehta Dayanand College for Women, Faridabad Haryana **Analysis and Modelling of Water Quality of Vijay Mandir, Alwar**
6. **Dr. Anu Sharma**, Rakhi Khandelwal, Department of Chemistry, Jaipur Engineering College Jaipur and Mr. Satish Mehla, College of Engineering and Technology, Bikaner, Rajasthan, **Statistical studies on the Ground Water Quality in rural Areas around Karni Industrial Zone, Bikaner**
7. **Mr. M. Sai Sasank**, Ms. K. Vaishnavi, Dr. Anupam Singhal and Dr. Anshuman Birla Institute of Technology and Science , Pilani , Rajasthan: **A Study on Ground Water Analysis for BITS Pilani Campus**

TEA **Venue:** **LTC** **Time:** 4:30 pm to 4.45 pm
Corridor

Technical Session – V **Venue:** **5104** **Time:** 4.45 pm to 5.45 pm

Theme: Water Resources Development and Management V: Groundwater, Surface Water, Interbasin Transfer and Water Supply Management

Chair: Dr. S. K. Singh, Sr. Scientist, NIH Roorkee and Dr. Hosam El-Emam, Senior Researcher - Bergen University, Norway

1. **Mr. G. I. Joshi** and Dr. A.S. Patel, Civil Engineering Department, Faculty of Technology & Engineering, M.S. University of Baroda, Vadodara, Gujrat, **Disaster Management of Tapi River Flood – Surat**
2. **Dr. Rajan Aggarwal**, Ms. Saman Preet Kaur, Prof. M.P. Kaushal and Ms. Pamela Miglani, Department of Soil and Water Engineering, Punjab Agriculture University, Ludhiana, Punjab, **Groundwater Situation in Indian Punjab: Challenges and Future Strategies**
3. **Dr. Dipanwita Bhattacharya**, , 134 Akashdarshan Apartments, Mayur Vihar Phase 1, New Delhi, and Prof. D.C. Goswami, Former Professor and Head,

- Department of Environmental Science, Gauhati University, Guwahati, Assam, **Hydrology and Environmental Management of Barak Basin, Assam**
4. D. R. Khanna, R. Bhutiani, **Mr. Gagan Matta**, Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar: **Water: Resources and Pollution**
 5. Prof. R. K. Singh, and **Ms. Nishtha Gupta**, Department of Natural Resources Management, TERI University, New Delhi, **Sustainable Groundwater Management in Indian Scenario with a Case Study of Western Yamuna Canal (WJC) Command, Haryana.**
 6. Mr. U.N.Chate, Visvesvaraya Technological university, Department of Industrial and Production Engineering, Gogte Institute of Technology, Belgaum and Prof. **A. S. Deshpande**, Department of Production Engineering, Fr.C.Rodrigues College of Engineering, Mumbai, **A Statistical Tool for Prediction of River/Stream flow**
 7. **Mr. Iskandar Abdullaev**, Mr. Ahmad Manschadi, Mr. John Lammers, Mr. Bernhard Tischbein and Mr. Jennifer Franz, Center for Developmen Research (ZEF), Bonn, Germany, **Water Resources Management in Low Amu Darya region of Central Asia: Case study of Khorezm Region of Uzbekistan**
 8. **Mr. D.N. Thakkar**, Babaria Institute of Technology, Varnama, Vadodara, and N.V. Shah, M.S. University of Baroda, Gujarat: **Water distribution system for a chak of Jhak-Vehlal minor of Jhanu Distributary**

Technical Session – VI

Venue: 5103

Time: 4.45 pm to 5.45 pm

Theme: Water Resources Development and Management VI: Water Quality Management

Chair: Prof. S. P. Churasia, Chemical Engineering Department, Malaviya National Institute of Technology, Jaipur, Rajasthan and Prof. R. N. Saha, Dean, Educational Development Division, BITS, Pilani

1. **Prof. Mohammad Jawed**, Department of Civil Engineering, Indian Institute of Technology Guwahati, **Long-Term Sustainability of Water and Wastewater Treatment Schemes**
2. **Dr. Ashwani Soni**, Mr. Dhanwinder Singh, Prof. Parampal Sahota and Prof. N.K.Khullar, Punjab Agriculture University, Ludhiana, Punjab, **Impact assessment of water quality of Budha Nala drain in Ludhiana: A case study**
3. **Ms. H.K. Shastri**, Department of Civil Engineering, Charotar Institute of Technology - Changa, Gujarat University, and Dr. A.S. Patel, Department of Civil Engineering, Faculty of Technology and Engineering, M. S. University of Baroda, Vadodara, Gujarat, **Kalpsar: A Solution to Salinity Ingress of Saurashtra Region**
4. **Dr. Suresh Gupta** and Prof. B. V. Babu, **Chemical Engineering Group, BITS, Pilani, Economic Feasibility Analysis of Low Cost Adsorbents for the Removal of Cr(VI) from Wastewater**

5. **Sh. Pradip S. Bhattacharyya**, India Technology Centre, ITT Corporation India Pvt. Limited, Vadodara, Gujarat, **Ozone Treatment-Improved Technology to Process Wastewater for Multiple Goals**

Cultural Programme **Venue: To be announced** *Time: 7:15 pm to 8.30 pm*

DINNER	Venue: VFAST Lawn	Time: 8.30 pm
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October 24, 2008

Plenary-II *Chair: Prof. Adar Eilon, Director, Zuckerberg Institute for Water Research, Ben Gurion University, Israel and Prof. A. K. Sarkar, Dean ID & FD I, BITS, Pilani* *Venue:5104*
Time: 9.30 am to 11.00 am

Prof. D. Nagesh Kumar, Civil Engineering Department, IISC Bangalore: **Application of Geographical Information System and Remote Sensing with reference to Climatic Hydrology**

Dr. Sushil K. Singh, N.I.H. Roorkee: **Analytical Developments on Stream Flow Depletion Induced Due to Pumping**

Dr. S. Mohan, Civil Engineering Department, Indian Institute of Technology, Madras: **Water Quality Management: Challenges and Options**

Presentation on ITT organization *Venue: 5104*
by Shri Pradip Bhattacharya *Time: 11.00 am to 11.15 am*

Presentation on Vatika Group *Venue: 5104*
by Sh. Devender Singh *Time: 11.15 am to 11.30 am*

TEA **Venue: LTC Corridor** *Time: 11.30 am to 11.45 am*

Technical Session – VII **Venue: 5104** *Time: 11.45 am to 1.00 pm*

Technology Advancement I: GIS & Remote Sensing

Chair: Prof. Rajiv Gupta, Dean Engineering Services Division, BITS, Pilani and Dr. Mahesh Kumar Jat, MNIT Jaipur

1. **Ms. Caroline Onyancha**, Alexander Khaemba and Bernadette Sabuni, Department of Civil and Structural Engineering, Masinde Muliro University of Science and Technology, Kakamega, Kenya, **GIS Application in Artificial Groundwater Recharge: Case Study of Kilifi District in the Kenyan Coast**

2. **Ms Deepshikha Sharma**, TERI University, Delhi, Reetika Goyal, G.G.S. Indraprastha University, Delhi, Shishir Gaur, IIT Delhi, Dr. Ram Karan Singh, TERI University, Delhi, **Watershed Management using Landuse Change in National Capital Territory, India**
3. **Mr. Mohandas Chadaga**, Udayashankar H. N., Ganesha A. and Gangahdhar Bhat H., Department of Civil Engineering, Manipal Institute of Technology,, Manipal, Karnataka, **Analysis of Hydrogeological Characteristics of Seetha-Swarna Basin of Coastal Karnataka by Using Remote Sensing and GIS Techniques**
4. **Mr. M.C. Sampathkumar**, Civil Engineering Department, BMS College of Engineering, Bangalore, Karnataka, Dr. Sreedhara V., KRSRAC, Bangalore, Dr. Balasubramanya, Department of Civil engineering, MSRIT, Bangalore, **Estimation of Ground Water Recharge in Watersheds by using Remote sensing and GIS**
5. **Ms. Dhara H. Maniar**, Water Resources and Management Department, L.D. College of Engineering,, Ahmedabad, Gujarat, **N.K. Sherasia**, Civil Engineering Department, L.D. College of Engineering, Ahmedabad, and **Shivmohan**, Space Application Centre, ISRO, Ahmedabad, **Microwave Remote Sensing for Estimation of Soil Moisture**
6. **Mr. Mutnuru Srinivasa Rao**, Department of Civil Engineering, Directorate of Training and Technical Education (DTTE), New Delhi, Naved Ahsan and Quamrul Hassan, Department of Civil Engineering, Jamia Millia Islamia, Delhi, **Review of GIS and Remote Sensing Applications in Hydrology and Watershed Modeling**

Technical Session – VIII

Venue: 5103

Time: 11.45 pm to 1.00 pm

Theme: Water Resources Development and Management VII: Water Quality Management

Chair: Prof. V. K. Garg Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar, and **Prof. B. V. Babu**, Dean Educational Hardware Division, BITS, Pilani

1. Mr. R. B. Ram, **Mr. Sudheer Kumar Shukla**, Dr. Vivek Kumar, Mr. M. C. Bansal and Mr. Dharm Datt, Department of Paper Technology, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur, **Application of Water Pinch Technology for Minimization of Fresh Water Consumption and Waste Water Generation in Indian Paper Industry**
2. **Mr. Parth Arora** , Dr. Anupam Singhal and Dr. A. P. Singh, Birla Institute of Technology and Science, Pilani , Rajasthan: **Fluoride Removal from Ground Water**
3. Ms. Neetu Rani, CRDT, Indian Institute of Technology, Delhi, **Dr. Vivek Kumar**, Department of Paper Technology, Indian Institute of Technology, Roorkee, Saharanpur Campus, U.P., Mr. V K Vijay, Mr. R C Maheshwari, CRDT, Indian Institute of Technology, Delhi, **Treatment of Pulp and Paper Mill Effluent using Constructid Wetland**

4. **Dr. Neeraj Jain** and Dr. A. K. Agarwal, Environmental Science and Technology Division, Central Building Research Institute, Roorkee, Uttarakhand, **Microbial Treatment of pulp and Paper Mill Wastewater**
5. Mr. Prateek Pachauri, Mr. Rajendra Falwariya, Ms. Sangeeta Vyas, Ms. Monika Maheshwari and **Dr. Raj K. Vyas**, Malaviya National Institute of Technology, J.L.N. Marg, Jaipur, Rajasthan, **Removal of Antibiotics from Wastewater**

LUNCH	Venue: BITS Student's Canteen	Time: 1.00 pm to 2.15 pm
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Technical Session – IX Venue: 5104 Time: 2:15 pm to 4.00 pm

Technology Advancement II: Mathematical Modeling, Simulation and Optimization Techniques

Chair: Prof. D. Nagesh Kumar, IISc Bangalore and Prof. K. Srinivasa Raju, BITS Pilani

1. **Prof. Adar Eilon**, Zuckerman Institute for Water Research – ZIWR, The J. Blaustein Institutes for Desert Research, Ben Gurion University of the Negev, Israel: **The Mixing Cell Model Approach for Identifying and Quantifying Groundwater Fluxes and Sources of Recharge Utilizing Environmental Hydrochemistry and Anthropogenic Traces.**
2. **Ms. Falguni Biswas, Ian White, Ben Macdonalds, Sara Beavis**, The Fenner School of Environment and Society, Australian National University, Canberra, Australia, **Prediction of Groundwater Levels in the Hunter, Eastern Australia, Using Parameter Efficient Model**
3. **Dr. Pradeep M.P.**, Civil Engineering Department, B.M.S. College of Engineering, Basavanagudi, Bangalore, Prof. Mysuru R. Yadupathi Putty, National Institute of Engineering Mysore and Dr. Nagaraj M.K, National Institute of Technology Suratkal, **A Watershed Model for Western Ghat Areas and Its Application on the Basin of Netravathi**
4. **Dr. Srinivasa Raju K.**, Civil Engineering Group, BITS, Pilani, Rajasthan, N.K. Kalra and N. Bhatia, State Remote Sensing Application Center, Jodhpur, **Classification of Microwatersheds using Kohonen Neural Networks and Cluster Analysis: A Case Study in Rajasthan**
5. **Mr. Deepak Jhajharia** and Prof. D. K. Srivastava, Department of Hydrology, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, **Optimization Study of Reservoirs in Sabri Basin**
6. **Mrs. Aruna Thube**, College of Engineering, Pune and **Prof. D. K. Srivastava** IIT Roorkee, **Assessment of Optimal Yield in a System of Reservoirs and Barrages**
7. **Ms. Sujana Dhar** and Asis Mazumdar, School of Water Resources Engineering, Jadavpur University, Kolkata, West Bengal, **Simulation of the Soil Moisture Accounting Parameters for the Ajay River for Future Water Availability Scenario**

8. **Dr. Ajit Pratap Singh**, Civil Engineering Group and Dr. Rajesh P. Mishra, Mechanical Engineering Group, BITS, Pilani, Rajasthan, **Assessment of Water Resources Potential in Chittorgarh District, Rajasthan: An Integrated Fuzzy Approach**
9. Prof. Y.P. Mathur, Prof. Gunwant Sharma, **Mr. A.W. Pawde**, Civil Engineering Department, M.N.I.T. Jaipur, **Optimal Water Delivery Scheduling of Lateral Canal**
10. **Dr. Om Prakash**, Pavithra M. and V.K. Kapur, Department of water resources, Consultancy Engineering Services, New Delhi, **Optimal Flood Control Operation of Single River-Reservoir System**
11. **Mr. Vijay Shankar**, Department of Civil Engineering, National Institute of Technology, Hamirpur, H.P., CSP Ojha and K.S. Hari Prasad, Department of Civil Engineering, Indian Institute of Technology, Roorkee, **Simulation of Vadoze Zone Moisture Profiles for Optimal Irrigation Scheduling**
12. **Mr. Sudheer Ch.**, Dept. of Civil Engineering, Indian Institute of Technology Delhi, Suryanarayana Ch., Dept. of Civil Engineering, GMR Institute of Technology Rajam and S. Mathur, Dept. of Civil Engineering, Indian Institute of Technology Delhi, **Design of Cost Effective Dewatering System in Subsurface Zone**
13. **Mr. Seyed Amir Shamsnia**, Islamic Azad University of Firouzabad, Iran, Nader Pirmoradian, Islamic Azad University of Shiraz, Seyed Naser Amiri, Payame Nour University, **Drought Simulation in Fars Province Using Standardized Precipitation Index and ARIMA Model**
14. **Ms. Drissia T K** and S Ravichandran, Center for Water Resources, Anna University, Chennai: **Estimation of Sediment Yield from Vepanappalli Sub Watershed in Krishnagiri Reservoir Catchment Area**

Technical Session – X

Venue: 5103

Time: 2.15 pm to 4.00 pm

Theme: Socio-economic Aspects

Chair: Prof. B. P. Agarwal, Akash Ganga, USA and Shri Phanish K. Sinha, India Network on Participatory Irrigation Management (IndiaNPIM) New Delhi

1. Prof. **Gautam Sadhu**, Programme Director, Community Participation Unit, Jaipur: **Influencing Factors in Planning & Designing of Irrigation Projects**
2. **Er. Pradeep S. Bhalge**, Water and Land management Institute, Kanchan wadi, Aurangabad, Mrs. Charu Bhavsar, Member of Indian Council for Water and Culture, Aurangabad, **People's Participation in Water Resources Management –A Case Study**
3. Dr. Y.P. Mathur and **Ms. Shashi Choudhary**, Department of Civil Engineering,, Malaviya National Institute of Technology, J.L.N. Marg, Jaipur, Rajasthan, **Socio-Economic Impact of Bisalpur–Jaipur Water Supply Project**
4. **Mr. Protyaya Mukherji** and Vaibhav Vishal, Gujarat National Law University, Gandhinagar, Gujarat, **Privatization of Water**

5. **Ms. Anjali Mohan Bhatia**, College Cork, Ireland, **Fitting Square Pegs in Round Holes: Participatory Management of Large-Scale Protective Irrigation Systems**
6. **Sh. Arvind Sudarsan**, Management Group, BITS Pilani, Rajasthan, **Water Conservation and Management, Privatization and Pricing: An Alternative Approach**
7. **Dr. George Chackacherry**, Scientist & Officer In Charge, Centre for Water Resources Development & Management, Sub Centre, Thriuvananthapuram, Kerala, **Gender Aspects and Water Resources Management**
8. **Dr. Omvir Chaudhry**, and Ms. Anusha Sirigiri, Economics and Finance Group, BITS Pilani, **Water Marketing in Indian Context**
9. **Mr. Arun Kumar Vaish** and Mr. Aditya Nagpal, Economics and Finance Group, BITS Pilani, **Micro-Financing in the Management of Ponds for Water Conservation**
10. **Prof. S. B. Misra**, Faculty, Management Group, BITS, Pilani, **Water as Enterprise: Privatised to Progress – A Case Study for Coastal Orissa, India**
11. **Ms. Anuradha B.**, Dr. J. D. Sophia and Dr. N. K. Ambujam, Centre for Water Resources, College of Engineering, Anna University, Guindy, Chennai, **Socio-Economic Impact of Tank Rehabilitation on Livelihood Options in Peri-urban and Rural areas**
12. **Dr. Sudip Kumar Pal** and Md. Abdur Rouf, Department of Civil Engineering, Chittagong University of Engineering & Technology, Raozan, Chittagong, Bangladesh : **Impact of Urbanization on Hydrologic cycle-A case Study in Bangladesh**
13. **Mr. D.N. Thakkar**, Babaria Institute of Technology, Varnama, Vadodara, **Participation Irrigation Management (PIM) in Area Under Jhak-Vehlal Minor (Gujarat)**
14. **Mr. Vanjul Jain**, Mr. Adit Suneja, Mr. Ankit Madan and Dr. Ajit Pratap Singh, Civil Engineering Group BITS, Pilani, Rajasthan, **Efficient Rainwater Harvesting System in Urban Areas**

TEA	Venue: LTC Corridor	Time: 4.00 pm to 4.15 pm
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Panel Discussion	Venue: 5104	Time: 4.15 pm to 5.00 pm
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Street play	Venue: LTC QT	Time: 5:15 pm to 5.45 pm
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DINNER	Venue: VFAST Lawn	Time: 8.30 pm
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October 26, 2008

Workshop *Venue:5104* *Time: 10.00 am to 11.30 am*

- Address by Dr. B. P. Agarwal to the participants and solutions to people queries from the experts

Site Visit *Library, Raila, Harinagar etc.* *Time: 11.30 am to 1.00 pm*
**RAIN WATER HARVESTING
SYSTEMS**

LUNCH	Venue: VFAST	Time: 1.00 pm to 2.30 pm
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