

**Technical Sessions of 37th AHI Annual
convention and Symposia on
“Water Resources Management under Changing
Environment and Climate”
13-16 October, 2019
Venue: CSIR-NGRI, Hyderabad**

13-10-2019

13:00 – 15:00 hrs : Registration

(Venue: Main Building, Car Parking)

16:00 – 17:30 hrs : Inaugural Session

(Venue: S B HALL)

17:30 – 18:30 hrs : High Tea

(Venue: Rockery)

18:00 – 18:45 hrs : Keynote Address

(Venue: S B HALL)

19:00 – 21:30 hrs : Cultural Programme

(Venue: Open Air Theatre)

Dinner Follows

(Venue: Rockery)

15-10-2019 Technical Session-TS4

Water Resources Management under Changing Environment and Climate (WRMC-1)

VENUE: SB HALL

TIME: 9:00 – 11:00 hrs

Chair Persons: Dr. Y. R. Satyaji Rao and Dr. T. M. V. Suryanarayana

Invited Talks:

Innovative Exploration Methods: RN Singh

Potential River Bank Filtration (RBF) well Identification using ERT and VES: Y.R. Satyaji Rao

NGRI-AHI Young Hydrologist Award Lecture: Depleting groundwater and increasing droughts: risks of water scarcity in India: Vimal Mishra

1. Detection of water leakage from Lake using self- potential and geoelectrical resistivity methods in Jodhpur city, Rajasthan India.
BirendraPratap
2. Delineation of shallow groundwater aquifers in the coastal village of thoothukudi District, Tamilnadu, India using electrical resistivity tomography
Jeyavel Raja Kumar.T, Saravanam,P, Dushiyanthan.C, Thirunelakandan.B and Senthilkumar,M
3. Correlation study of Surface Geo-electrical Methods with Subsurface Lithology for groundwater investigation in Bishnupur vi Taluka, W.B, India
SoumyaKantaNayak, Sandeep Gupta and R.S. Kumar
4. Comprehensive assessment from electrical resistivity Tomography, borehole lithology and conceptual geological studies to decipher groundwater in chhotanagpur Gneissic complex.
Dewashish Kumar, TaufiqueWarsi
5. 3D Electrical Finite Element Modelling and Simulation of Variant Groundwater systems.
V.P. Maurya, S.Chandra
6. Estimation of Aquifer parameters using Geoelectric Method and Pumping Test.
Madhavi Ganesan

15-10-2019 Technical Session-TS4

Extreme events – prediction and mitigation & Ecological Imbalance and eco hydrology – (WRMC– 2)

VENUE: AcSIR Lecture Hall I

TIME: 9:00 – 11:00 hrs

Chair Persons: Prof. P. N. Ballukraya and Dr. S. Vadagbalkar

Invited Talks:

Rain response releases in Krishna Basin - K. Venugopal

Is the Decline in Groundwater Levels in India being underestimated? - P.N. Ballukraya

1. Some- Distributed and data driven Rainfall- Runoff modelling of sarada river basin
R.VenkataRamana, Y. R. Satyajirao, Rama Devi and V.S. Jeyakanthan
2. Development of Rainfall Intensity Duration Frequency Curves for Vadodara City, Gujarat, India
SumitraSonaliya and TMV Suryanarayana
3. Rapid inundation mapping using Sentinel-1 data for southwest rainstorm season 2018 in Kerala
Vikas Kumar Rana and TMV Suryanarayana
4. Development of a Rainfall-Runoff model using Computing techniques
YRS Rao and R. Venkata Ramana
5. Hydrological response of cryospheric changes in the Ganga headwaters.
Renoj J.Thayyen, Mritunjay Kumar Singh, P. K. Mishra, A.P Dimri
6. Reclamation of water logged saline soils for re agriculture From Ganegaon – Tandali villages of Pune Dist: A Success Story
Shrinivas Vadagbalka
7. Mapping of Aquaculture in western Godavari Delta using Remote sensing technique.
Vijay Teeparthi, Y.R.S Rao, Manikantan, Y.Sivaprasad
8. Impact of land use and climate change on Hydrological Services of forested and agricultural headwater catchments in the central Himalaya.
M.S. Rawat and K. Belho

15-10-2019 Technical Session-TS5

Integrated water resource Management – (WRMC-3)

VENUE: SB HALL

TIME: 13:45 – 16:00 hrs

Chair Persons: Prof. B. Venkateswara Rao and Dr. Girish Gopinath

Invited Talks:

Surface and ground water interaction – A case for rejuvenation of rivers and management of ground water: B.Venkateswara Rao, JNTU, Hyderabad

Some water harvesting Structures to reduce seawater intrusion into coastal Aquifers along the Andhra Pradesh coast:V.VenkateswaraRao

Himalayan Climate: Uncertainties: A. P. Dimri

1. Geospatial Technology in water resources management
Girish Gopinath
2. Groundwater modeling of Suddegedda river Sub-basin of East Godavari District for better water management Strategies
Y.Siva Prasad, Y. R. SatyajiRao
3. Optimal Reservoir Operation to Meet Irrigation Demands Under Drought Situations in Ghataprabha Command Area
R.Shreedhar,Nithya B.K
4. Signal separation of time-variable gravity: case study for hydrology
HarikaMunagapati, V.M. Tiwari
5. Interaction entropy-based model for estimating natural groundwater reserve in a granitic terrain, Southern India
NC Mondal
6. Impact of land scape Dynamics on Hydrological Parameters and Springshed Development
Abhilash R, B.K Purandara, Chidanand Patel, Surya Kiran

15-10-2019 Technical Session-TS5

Water Quality – Emerging Contaminants (WRMC-4)

VENUE: AcSIR Lecture Hall I

TIME: 13:45 – 16:00 hrs

Chair Persons: Prof. L. Elango and Dr. B. Purandara

Invited Talk: A Vara Prasada Rao, Director, A.P. Groundwater and Water Audit Department

NGRI - AHI Indian National Hydrology Award Lectures:

**Ground water exploration and management to serve the society:
Dr.SN Rai**

Mitigation of ground water depletion and seawater intrusion by managed aquifer recharge: Prof. L. Elango

1. Assessment of occurrence, fate and transport of Contaminants in the aquifers beneath the city, HussainSagar catchment, South India.
L. Surinaidu, K. Mahesh Kumar, M.J. Nandan, V.V.S. GurunadhaRao
2. Groundwater Quality investigation in subledu Basin of Khammam District, India.
VullojuNarasaiah, BekkamVenkateswara Rao
3. Hydro-geochemistry and Groundwater Quality in Sedimentary part of Gadilam River Basin, Cuddalore District, Tamil Nadu, India
R. Ravi , S. Aravindan, Sanjay Kumar Balabantaray
4. Seasonal influences on Submarine groundwater discharge aided by diverse techniques in Sankarabarani river estuary, Pondicherry, India
Ponnumani G, SrinivasamoorthyK,Prakash R, Babu C and Rajesh Kanna A
5. Assessment of Human Exposure Risk due to Heavy Metal Contaminated Groundwater in The Noyyal RiverBasin
Madhumitha R and K Kumaraswamy
6. Hydrogeochemical characteristics and groundwater quality of Perambalur District, Tamil Nadu, India
Anbarasu S
7. Evaluation of Groundwater Quality and its Suitability for Drinking and Agriculture use in the Central Delta ofGodavari, East Godavari District, Andhra Pradesh.
K Vishnu VardhanaRao, T Vinoda Rao, G Vijay Kumar, K Ashok Kumar, M.Pavan Kumar

16-10-2019 Technical Session-TS8

Water Quality – Emerging Contaminants – (WRMC – 5)

VENUE: SB HALL

TIME: 13:45 – 15:45 hrs

Chair Persons: Dr.Pandit Madhunure and Prof. N. V. B. S. S. Prasad

Invited Talks:

**Integrated Water Resource Management: Dr. Pandith Madhnure,
Director, Telangana State Groundwater Board**

DrAnik

Dr. Barton

1. Hydrogeochemical characteristics of upper Manimala River Basin, Idukki, Kottayam and pathanamthittaDist;Kerala
P.G Dilip Kumar and Ashique Shah Ashruf
2. Assessment of Hydrogeochemical characteristics and Groundwater quality for its suitability for various purpose - Using integrated geochemical methods in upper Krishna River, basin, India
Rama Mohan Kurakalva
3. Assessment of Hydrogeochemical characteristics and Groundwater quality for its suitability for various purpose - Using integrated geochemical methods in upper Krishna River, basin, India
S PolalsiamVaiphei and K Rama Mohan
4. Conservation and management of urban water supply Reservoirs of Hyderabad city under the growing environmental threats.
M.J. Nandan, S. Dinesh Kumar, L. Surinadu, A.K. Pandey, A. Umamaheswari and V.M. Tiwari