IGWC 2025

10th INTERNATIONAL GROUNDWATER CONFERENCE 2025

Groundwater Vision 2047: Towards Water Security under Changing Climate

March 05-07, 2025 | NIH Roorkee, India

CONFERENCE PROGRAM

organized by

National Institute of Hydrology, Roorkee, India

in association with

हमारा संकल्प नदियों का कायाकल्प
We Pledge To Conserve Our Rivers

British Geological Survey

Hochschule für Technik und Wirtschaft Dresden
University of Applied Sciences

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WELCOME TO IGWC 2025

We warmly welcome all the distinguished dignitaries, foreign and Indian keynote speakers, delegates, young researchers and, sponsors and exhibitors to the "International Groundwater Conference 2025 (IGWC-2025)" focusing on "Groundwater Vision 2047: Towards Water Security under Changing Climate", scheduled from March 05-07, 2025 at the National Institute of Hydrology (NIH), Roorkee. The conference is organized by the National Institute of Hydrology, Roorkee (under Ministry of Jal Shakti, Dept. of Water Resources, River Development & Ganga Rejuvenation, Government of India) in association with the Central Groundwater Board, New Delhi, India; Association of Global Groundwater Scientists (AGGS), Coimbatore, India; National Mission for Clean Ganga (NMCG), New Delhi, India; National River Conservation Directorate (NRCD), New Delhi, India; British Geological Survey (BGS), United Kingdom; Hochschule für Technik und Wirtschaft (HTWD) Dresden, Germany; and KTH-Royal Institute of Technology, Stockholm, Sweden.

Groundwater is a vital natural resource with significant economic, strategic and environmental value. However, it is under stress in many regions worldwide due to increasing urbanization, industrialization, changing climatic, increased demands and other human-driven activities. The depletion of groundwater levels and the deterioration of water quality are particularly concerning issues in numerous areas. To address these challenges, effective groundwater resource management strategies must be developed to reverse the decline in water quality and depleting water levels, ensuring the sustainability of this precious yet limited resource. Currently, India stands as the world's largest and fastest-growing consumer of groundwater. Groundwater is a crucial resource, integral to life and indispensable for comprehensive growth and development of the country in achieving its holistic vision of a developed nation by 2047, the 100th year of its independence.

The International Groundwater Conference 2025, is centered around the main theme "Groundwater Vision 2047: Towards Water Security under Changing Climate". The conference will cover a wide range of topics including groundwater assessment, management and modelling under varied climatic and geological settings; agriculture water management; climate change; environmental flows and river rejuvenation; mountain hydrology and spring-shed management; coastal water resources management; and advanced techniques in groundwater monitoring, management and exploration, etc. The issues are of significant concern to India and are critical for policy makers, water managers and researchers in the country. The overarching theme aligns with India's vision for sustainable and inclusive growth through a multipronged strategy aimed at eradicating poverty by increasing livelihood opportunities, providing social safety net and developing infrastructure for growth, for which sustainable groundwater management is essential.

Researchers from both developed and developing nations are working on various facets of groundwater, such as advancing tools and techniques for monitoring resources, sub-surface characterization, aquifer mapping and modeling, and crafting effective management policies. The IGWC 2025 aims to unite scientists, researchers, planners, policymakers, engineers, water resource managers, students, NGOs, and other stakeholders in the groundwater and environmental sectors. Focusing on the latest research and technological advancements from around the world, IGWC 2025 aims to deliver meaningful outcomes and offer a vision for 2047 to safeguard groundwater resources, not only in India but globally.

This conference includes 41 abstracts from keynote speakers and 311 abstracts from delegates and experts, both from India and abroad. The event will provide a platform for exchanging ideas, knowledge, experiences, techniques, and expertise, offering an opportunity to present research findings, discuss challenges, and explore scientific advancements in water resources development and management under the influence of climate change. The focus is on ensuring a water-secure future and promoting sustainable development, with special emphasis on groundwater. We hope that the conference deliberations will lead to practical recommendations for developing a framework to implement various programs and initiatives by both government and non-government organizations working in the water sector in general and groundwater in particular.

Besides the keynote, plenary and technical sessions on all the three days of the conference, two Pre-Conference Workshops on Advanced Groundwater Modelling are being organized for young researchers on March 3-4, 2025. The first workshop on "Solute Transport Modeling" is jointly organized by NIH, Roorkee and S.S. Papadopulos & Associates Rockville, Maryland, USA. The second workshop on "Groundwater flow and mass transport with FEFLOW" is jointly organized NIH and DHI group. An important add-on activity is the Annual General Body Meeting of AGGS scheduled on Day 2 of the conference in the evening.

The conference has another attractive activity "Business to Business Exhibition" to showcase hardware and software solutions, technology solutions & demonstration, instruments & products exhibit, etc. A number of exhibitors are going to take part in the exhibition for showcasing their products and technologies. The exhibition will run on all the three days.

Our sincere and heartfelt gratitude to the Department of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, Government of India, for providing administrative and financial support in the successful organization of IGWC 2025. The Conference Organizing Committee is also thankful to all the delegates, sponsors, exhibitors, reviewers, publishers and printers and all those who have directly or indirectly contributed to the organization of the conference. The Organizing Committee also extends sincere thanks to the NIH Roorkee administration and the various Conference Management Committees for giving their valuable time and extending full hearted support and cooperation.

We have made every effort to provide a platform for initiating dialogue, exchanging views, sharing experiences, and promoting innovative technologies, with the goal of addressing emerging challenges related to groundwater. The success of the conference relies on our collective active participation and thoughtful deliberation on various scientific, technical, and governance issues throughout the three-day program.

We wish you all a very pleasant stay in Roorkee. Hope you will enjoy the social activities and the post-conference field trip!!

Organizing Committee

IGWC 2025

About the IGWC Series

Groundwater has emerged as a major resource in safeguarding agriculture and drinking water security in many parts of the globe. However, groundwater depletion, contamination, and governance challenges continue to persist despite decades of groundwater research. Searching solutions for the conservation and sustainable management of groundwater is likely to play a crucial role in meeting the water demands of the population in future, under a changing climate and to ensure food and water security for both the developed and developing nations. Keeping in view the significance of groundwater in the economic growth and development of a country, a series of International Conferences on Groundwater are being organized regularly by the AGGS in collaboration with other academic and research organizations, to deliberate on various issues related to groundwater including the recent advances in groundwater research. A total of 09 such conferences have been organized so far including the recent ones in 2012, 2015, 2017, 2019 and 2022. The present conference (IGWC 2025) is the 10th such conference in this series, which is being organized at the NIH, Roorkee, during 5th to 7th March, 2025.

The key issues and challenges expected in groundwater management are needed to be clearly identified and framework for systematic and scientific research needs to be determined from time to time with formulation of specific and pinpointed recommendations for future work. The international conferences in IGWC series have served as the meeting points for groundwater experts and professionals, for this purpose. Therefore, the aim of IGWC 2025 also is to provide a common platform for researchers, academicians, policy makers, water managers, technocrats, industrialists and NGO's, to discuss and deliberate on the current groundwater issues as well as Groundwater Vision 2047, in the face of growing challenges of the needs of rising population and confronting climate uncertainties in water resources planning and management.

During the conference the implications of this perspective on data collection, scientific investigations, governance, and management are also expected to be discussed at length, with a motivation to highlight a wider, complex, interdisciplinary, and systems approach to groundwater assessment and management. It is intended and hoped that a suite of new (or existing but underutilized) concepts and interdisciplinary and transdisciplinary methodologies would emerge out of the deliberations, to aid and promote transformations towards sustainability and resilience of the groundwater systems.

Looking at the aforementioned aspects, the themes of the conference have been identified as:

T1: Vision 2047: Impact of Climate Change on Groundwater & Adaptation Measures

T2: Vision 2047: Environmental Flow & Rejuvenation of River Ganga

T3: Vision 2047: Mountain Hydrology & Springshed Management

T4: Water Resources in Arid and Semi-Arid Regions

T5: Groundwater Contamination and Remediation

T6: Groundwater Modeling and Management

T7: Advanced Techniques for Groundwater Exploration & Assessment

T8: Augmentation of Groundwater Resources

T9: Coastal Water Resources Management

T10: Policy, Regulation Governance & Community Participation for Groundwater Management

T11: Application of AI, ML, IoT, Cloud Computing and other Advanced Techniques in Groundwater

T12: Vadose Zone Hydrology and Agriculture Water Management

T13: Protection of Groundwater Dependent Ecosystems - Rivers, Wetlands, Lakes and Springs

T14: Isotopic Techniques in Groundwater Investigations & Management

Organizing Committee

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Sqn. Ldr. Sanjey Vashisht	Adani Group, Ahmedabad

Conference Information

Duration
The conference will commence on 05th March 2025 and shall conclude on 07th March 2025.

Pre-conference workshops
Two Pre-Conference Workshops on Advanced Groundwater Modelling: (i) Groundwater flow and mass transport with FEFLOW, and (ii) Solute transport modeling will be organized during March 03-04, 2025. Only registered delegates of the conference can participate in these workshops with prior registration for these workshops.

Venue
The Conference will be held at the National Institute of Hydrology (NIH), Roorkee, Uttarakhand (India). The Event Venue Map shows the various conference venues along with the activities to be organized.

Accommodation
The participating delegates have to make their own arrangements for accommodation.

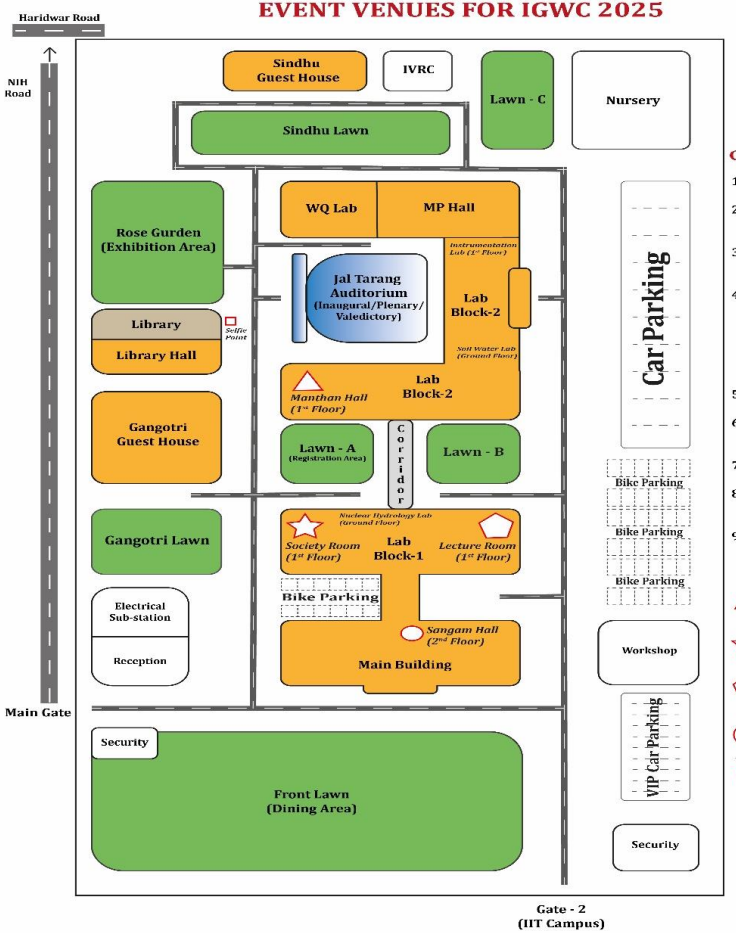
Transportation
Efforts will be made to arrange pick-up and drop from/to hotels to/from Conference Venue during 05-07 March 2025 for the delegates staying in identified hotels located towards Haridwar road. Individual/off-route pickup/drop shall not be arranged.

Conference Desk
The Conference Desk (Registration and Help desk) is located at the Lawn-A. Delegates are requested to register at the registration desk. Registration hours will be from 09:00 AM – 04:00 PM on 05th and 6th March, 2025 and 09:00 AM – 12:00 noon on 07th March, 2025.

Delegate Badges
A personalized badge is part of the conference registration package. Participants are requested to kindly wear the delegate badge during the entire conference duration, including the social events and the post-conference tour. Entry to the dining area shall be strictly based on the delegate badge.

The conference organizers as well as the conference personnel will wear badges with a distinctive mark. Should you have any questions related to the conference, not sorted at the help desk, please look for these persons to get help.

EVENT VENUES FOR IGWC 2025



Conference Activities

1. **Registration:** Lawn-A
2. **Welcome & Inaugural:** Jal Tarang Auditorium
3. **Plenary Sessions:** Jal Tarang Auditorium
4. **Technical Sessions:** Jal Tarang Auditorium, Society Room, Lecture Hall, Sangam Hall, Manthan Hall
5. **Exhibition:** Rose Garden
6. **Poster Session:** Rose Garden
7. **Dining:** Front Lawn
8. **Cultural Program:** Jal Tarang Auditorium
9. **Valedictory:** Jal Tarang Auditorium

△ **Manthan Hall** *1st Floor, Lab Block-2*

☆ **Society Room** *1st Floor, Lab Block-1*

⬠ **Lecture Room** *1st Floor, Lab Block-1*

⬭ **Sangam Hall** *2nd Floor, Main Building*

□ **Selfie Point** *Front of Library*

Certificate of Participation
A Certificate of Participation will be provided to registered participant during the technical session.

Certificate of Best Paper Award
A Certificate of best paper award will be provided during the technical session to the selected participant.

Tea-Coffee Break / Lunch / Dinner
During the conference, morning and afternoon tea/coffee, lunch and dinner will be served. The costs of the Tea/coffee & lunch (from Wednesday 05th March to Friday 07th March, 2025) and dinner (on Wednesday 05th and Thursday 6th March) are included in the registration fee. Two high-teas, after inaugural on Wednesday 5th March and after valedictory on Friday 7th March are also included.

Group Photo of the Conference
A group photo of all the present delegates will be taken on 07th March, 2025 and made available on the website.

Conference Program Overview

DATE	TIME	SESSION/ACTIVITY	VENUE
05-03-2025 (Day-1)	09:00 AM – 10:15 AM	REGISTRATION	Lawn-A
	10:15 AM - 10:30 AM	INAUGURATION OF EXHIBITION	Rose Garden
	10:30 AM – 11:00 AM	WELCOME FUNCTION	Jal Tarang Auditorium
	11:00 AM – 11:30 AM	TEA	Front Lawn
	11:30 AM - 01:30 PM	PLENARY SESSION 1: PARTICIPATORY GROUNDWATER MANAGEMENT	Jal Tarang Auditorium
	01: 30 PM– 2:30 PM	LUNCH	Front Lawn
	02:30 PM - 04:00 PM	PLENARY SESSION 2: INTEGRATED URBAN GROUNDWATER MANAGEMENT	Jal Tarang Auditorium
	04:30 PM – 05:30 PM	INAUGURAL FUNCTION	Jal Tarang Auditorium
	05:30 PM – 06:00 PM	HIGH-TEA	Front Lawn
	07:30 PM – 08:30 PM	CULTURAL PROGRAM	Jal Tarang Auditorium
	08:30 PM – 10:00 PM	WELCOME DINNER	Front Lawn
06-03-2025 (Day-2)	09:00 - 11:00 AM	T1 (S1)	Jal Tarang Auditorium
		T2 (S1)	Sangam Hall
		T3 (S1)	Society Room
		T4 (S1)	Manthan Hall
		T5 (S1)	Lecture Room
	11:00 AM - 11:30 AM	**TEA**	Front Lawn
	11:30 AM – 01:30 PM	T1 (S2)	Manthan Hall
		T3 (S2)	Jal Tarang Auditorium
		T4 (S2)	Lecture Room
		T5 (S2)	Society Room
		T6 (S1)	Sangam Hall
	01:30 PM – 02:30 PM	**LUNCH**	Front Lawn
	02:30 PM– 04:15 PM	T3 (S3)	Lecture Room
		T4 (S3)	Society Room
		T5 (S3)	Jal Tarang Auditorium
		T6 (S2)	Sangam Hall
		T13 (S1)	Manthan Hall
		POSTER Session	Rose Garden

	04:15 PM- 04:45 PM	**TEA**	Front Lawn
	04:45 PM – 06:30 PM	T5 (S4)	Society Room
		T6 (S3)	Manthan Hall
		T7 (S1)	Sangam Hall
		T8 (S1)	Lecture Room
		T11 (S1)	Jal Tarang Auditorium
	06:30 PM – 07:00 PM	Annual General Body Meeting of AGGS	Sangam Hall
	07:30 PM – 10:00 PM	**GALA DINNER**	Hotel Golden Leaf
07-03-2025 (Day-3)	09:00 AM - 11:00 AM	T5 (S5)	Jal Tarang Auditorium
		T7 (S2)	Society Room
		T8 (S2)	Sangam Hall
		T9 (S1)	Lecture Room
		T10 (S1)	Manthan Hall
	11:00 AM – 11:30 AM	**TEA**	Front Lawn
	11:30 AM – 01:30 PM	T5 (S6)	Jal Tarang Auditorium
		T7 (S3)	Lecture Room
		T8 (S3)	Manthan Hall
		T11 (S2)	Sangam Hall
		T12 (S1)	Society Room
	01:30 PM- 02:30 PM	**LUNCH**	Front Lawn
	02:30 PM – 04:15 PM	T11 (S3)	Society Room
		T12 (S2)	Jal Tarang Auditorium
		T13 (S2)	Sangam Hall
		T14 (S1)	Lecture Room
		T14 (S2)	Manthan Hall
	04:30 PM – 05:30 PM	**VALEDICTORY**	Jal Tarang Auditorium

*'**T**' stands for Theme and '**S**' stands for Session.*

Experts for Plenary Sessions

Session-1 - Participatory Groundwater Management

Mrs. Archana Varma
Additional Secretary & Mission Director, National Water Mission, Ministry of Jal Shakti, Govt. of India

Sh. Subodh Yadav
Project Coordinator & Additional Secretary (Admin, IC & GW), Atal Bhujal Yojana, Ministry of Jal Shakti, Govt. of India

Prof. G L Asawa
Ex. Professor & Head of Civil Engineering, IIT Roorkee, Roorkee

Dr. Daniel D. Snow
Professor, Nebraska Water Center, University of Nebraska–Lincoln, USA

Dr. Sharmila Oswal
Director, Centre for Excellence: Smart Agriculture & Millets, Pahlé India Foundation, New Delhi

Dr. Eshwer Kale
Watershed Organisation Trust (WOTR), Pune, Maharashtra

Mr. Kumar Ranjan Parhi
Centre for Micro-Finance, Jaipur, Rajasthan

Moderator
Dr. A K Sikka
Country Representative & Principal Researcher, International Water Management Institute, New Delhi

Session-2 - Integrated Urban Groundwater Management

Sh. Rajeev Kumar Mittal
Director General, National Mission for Clean Ganga, Ministry of Jal Shakti, Govt. of India

Dr. Sunil Kumar Ambast
Chairman, Central Ground Water Board, Ministry of Jal Shakti, Govt. of India

Eng. Noa Amsalem
Embassy of Israel, New Delhi

Mr. Casper Thorin Mayland
Embassy of Denmark, New Delhi

Prof. Alan MacDonald
Head, British Geological Survey, Edinburgh, United Kingdom

Dr. Victor R. Shinde
National Institute of Urban Affairs, New Delhi

Moderator
Dr. P. Nandakumaran
Ex-Chairman, Central Ground Water Board, New Delhi

Instructions for Presenters

Oral presentations
All presenting authors are requested to transfer their presentation to the conference laptop directly in the breaks before their session in their respective halls. Delegates will not be allowed to use their own personal laptops to present their work.

The duration of each Keynote talk is about 15 minutes.

The duration of each oral presentation is about 10 minutes including discussion. However, Chairs of the session may change presentation duration depending upon the number of presenters present during the session. Presenters should be present in the session hall 10 minutes before the session.

Poster presentations
The poster session will be conducted on 06th March, 2025 during 02:30 PM– 04:15 PM at the Rose Garden. Presenters of posters should arrange their posters before the session starts and supervise their poster during the whole poster session. The format for poster is landscape with size A1.

Best paper Award
Best paper will be awarded for each individual technical session to young researchers. The best paper of the session shall be selected by the Chairs of the session based on the quality of content, presentation, time management, etc. Award will be presented in the session itself.

Best poster award
Three best posters will be awarded in the poster session. The best poster of the session shall be selected by the Chairs of the session based on the quality of content and presentation. Award will be presented in the session itself.

06th March 2025 (Day 2), Time: 09:00 - 11:00 AM
Technical Session: T1 (S1)
Hall Name: Jal Tarang Auditorium
THEME: IMPACT OF CLIMATE CHANGE ON GROUNDWATER AND ADAPTATION MEASURES

Session Chairs: Sharad K. Jain & Alan MacDonald

Sr. No.	Abstract-ID	Author	Title
Keynote		**Alan MacDonald**	**Using groundwater to adapt to climate change and increase water security**
1.	IGWC- 50	Suman Kumar	Impact of Climate Change on Groundwater Resources of Harohar Basin, Lower Ganga Plain, India
2.	IGWC-75	Ashutosh Chamoli	Insight into Groundwater Variability in North India using GRACE Observations: Role of Climatic and Socioeconomic Factors
3.	IGWC-132	Sivakumar Muthu	Groundwater Modelling to Understand the Impacts of Climate Change in the Chennai Basin, South India
4.	IGWC-142	Donald John	Assessing the impact of the 2023 floods in Himachal Pradesh & Punjab on groundwater recharge
5.	IGWC-147	Nare Saraswathi Naidu	Identify the Optimum Rainfall Pattern and Distribution of Ground Water Scenario at Different Levels and Fluctuations of Water Levels over North Karnataka
6.	IGWC-162	Vikas Singh	Analyzing the Impacts of Recent Climate Changes on the Hydrology of Surface Water and Groundwater Using an Integrated Hydrological Model
7.	IGWC-193	Ashfaque M. Gojree	Numerical study of the hillslope drainage problem for a heterogenous soil with a changing topography
8.	IGWC-198	Nilesh S. Mankar	Addressing the climate change impacts in Nagpur District of Maharashtra, India: A Success Story of the Green Project
9.	IGWC-166	N. Sudarsan	Climatic Impacts on Groundwater Recharge Estimates for Indian Ganga Basin (IGB)
10.	IGWC-502	Kapil Kesarwani	Influence of Climate Change on Milam Glacier Dynamics (Gori Ganga River Basin, Central Himalaya, India

06th March 2025 (Day 2), Time: 09:00 - 11:00 AM
Technical Session: T2 (S1)
Hall Name: Sangam Hall
THEME: ENVIRONMENTAL FLOW AND REJUVENATION OF RIVER GANGA

Session Chairs: A.A. Kazmi & Anup Kumar Srivastava

Sr. No.	Abstract-ID	Author	Title
Keynote		A.A. Kazmi	**Role of advanced on-site and decentralized sewage treatment system for the rejuvenation of river Ganga**
1.	IGWC-269	Nitin Kaushal	Rejuvenating Kali River in Uttar Pradesh – A case study of river flows enhancement through agriculture water management
2.	IGWC-314	Shakti Suryavanshi	Assessment of the ecosystem services of a semi-arid region of India
3.	IGWC-315	Aman Raj	Stream Dynamics Analysis of Stretch of Ganga River Using Geospatial Techniques
4.	IGWC-431	Shailendra Kumar	Integrated Environmental Flow Assessment for the Subarnarekha River: A Holistic Approach to Sustainable Ecosystem Management
5.	IGWC-443	Pallavi Gahlot	Fostering Solubilization and Biodegradation of OMPS Using Thermal Hydrolysis Pretreatment.
6.	IGWC-149	Pavan Kumar Harode	Assessing River Discharge Patterns for Ecosystem Sustainability: A Case Study of the Wainganga River
7.	IGWC-504	Pradeep Kumar	Environmental Flow Assessment for Yamuna River from Hathnikund Barrage to Okhla Barrage
8.	IGWC-505	M.K. Sharma	System Characteristics of Himalayan Tributaries of Upper Ganga Basin, India
9.	IGWC-261	R. Rajamanickam	Restoration of polluted river stretches in Tamil Nadu: A status and strategic framework

06th March 2025 (Day 2), Time: 09:00 - 11:00 AM
Technical Session: T3 (S1)
Hall Name: Society Room
THEME: MOUNTAIN HYDROLOGY AND SPRINGSHED MANAGEMENT

Session Chairs: R.D. Deshpande & Soban Singh Rawat

Sr. No.	Abstract-ID	Author	Title
Keynote		**R.D. Deshpande**	**Roadmap of Hydrology Research for Developed India: Vision 2047**
1.	**IGWC-38**	Gunanidhi Pokhrel	Spring Outflows in Diverse Lithological and Geomorphological Settings of Mid-Hill Region of Western Nepal
2.	**IGWC-59**	Nirajan Ojha	Distribution of Springs Along the Phalebas Thrust in Middle Hill Region of Western Nepal
3.	**IGWC-62**	Ankit	Stage-discharge rating curve and Particle-size distribution of sediment of Ranikhola river, Sikkim, India
4.	**IGWC-83**	Shikha Rawal	Spatio-Temporal Distribution of Natural Water Resource in Kangra Block, Himachal Himalaya: A Hydrochemical and Hydrological Analysis
5.	**IGWC-90**	Poulomee Coomar	Tracing Solute Sources and Derivation Pathways in Trans–Himalayan Groundwaters of the Indus River Basin in Ladakh, India
6.	**IGWC-110**	Venkata Ramamohan Ramachandrula	Gravity-Based Pressurized Pipe Irrigation Networks (GPPINS) Using Springs in Hilly Areas: Opportunities and Challenges
7.	**IGWC-119**	Neeraj Pant	Integrating Science and Community Action for Sustainable Spring Management in the Indian Himalayas
8.	**IGWC-503**	Gaurav Singh	Community Led Springshed Management in Meghalaya, India

06th March 2025 (Day 2), Time: 09:00 - 11:00 AM
Technical Session: T4 (S1)
Hall Name: Manthan Hall
THEME: WATER RESOURCES IN ARID AND SEMI-ARID REGIONS

Session Chairs: B. Venkateswrarao & A. Asokan

Sr. No	Abstract-ID	Author	Title
Keynote		B. Venkateswrarao	**Urban Ground Water Problems and Prospects – A Case Study of Upper Musi Basin Hyderabad, India**
1.	IGWC-78	Daksh H. Soni	Assessing Groundwater Vulnerability with Upgraded DRASTIC-LU Model in Semi-Arid Banaskantha District, Gujarat, India
2.	IGWC-88	Priyanka Parmar	Assessment of Groundwater Quality and Its Impact on Human Health in South Western Haryana
3.	IGWC-93	Damodar Sharma	Empirical Evaluation of Water-Saving in Irrigation Canals in the Semi-Arid Zone of India
4.	IGWC-94	Rupsa Mitra	An Approach for Water Resource Management in the Semi-Arid Region: A Case Study of Kalahandi District, Odisha, India.
5.	IGWC-104	Avinash R	Long-Term Trend Analysis of Groundwater Withdrawals in A Semi-Arid Basin of South India
6.	IGWC-242	Isha Swati	Quantitative Assessment of Canal Water Allocation for Groundwater Recharge in North-West India
7.	IGWC-244	Shashi Poonam Indwar	Trend Analysis of Selected Hydro-Meteorological Variables for the Kolar Basin In Madhya Pradesh, India
8.	IGWC-153	K.B.V.N. Phanindra	Evaluation of GRACE data by developing an integrated hydrological model to simulate terrestrial water storage in a large scale semi arid river basin

06th March 2025 (Day 2), Time: 09:00 - 11:00 AM
Technical Session: T5 (S1)
Hall Name: Lecture Room
THEME: GROUNDWATER CONTAMINATION AND REMEDIATION

Session Chairs: Prosun Bhatacharya & Prashant Rai

Sr. No.	Abstract-ID	Author	Title
Keynote		**Prosun Bhatacharya**	**Scaling Water Safety in South Asia: A Model for Policy Interventions, Groundwater Monitoring, Driller Engagement and Digital Interventions for Sustainable Arsenic Mitigation in Bangladesh**
		Bentje Brauns	**Emerging Contaminants and Microbial Indicators in Surface Waters and Groundwaters in Bengaluru City, Karnataka, India**
1.	**IGWC-10**	Mamta Bisht	Chitosan and Chitosan-Graphene Oxide Nano-Bioadsorbents for Efficient Fluoride Removal from Water: Process Optimization and Adsorption Mechanisms
2.	**IGWC-24**	Manju Kajla	Strategic Anchoring of Ceria on Graphite Surface for Optimal Groundwater Arsenic Removal
3.	**IGWC-417**	Tripti Muguli	Inventory of Radon Abundance in Groundwater of the Yamuna River Basin, India
4.	**IGWC-36**	Smitakshi Medhi	Arsenic Contamination in Groundwater and Health Risk Assessment in Parts of the Brahmaputra Floodplains in Assam, India
5.	**IGWC-45**	Jayashri Dutta	Heavy Metal Contamination in Groundwater of the Guwahati City, Assam, India
6.	**IGWC-427**	Dr. M. Uma Shankar	Examining the Characteristics of Groundwater Quality in Fluoride-Enriched Hard Rock Region in Vellore District Tamil Nadu, India using Hydrogeochemical and Multivariate Statistical Techniques
7.	**IGWC-68**	Rashmi Bala	Fluoride Toxicity and Its Impacts on Human Health in Wazirganj Block, District Gaya, Bihar, India
8.	**IGWC-120**	Anjali Kushwaha	Trends in Groundwater Quality and Heavy Metal Pollution in Haridwar District, Uttarakhand: A Call for Sustainable Management

06th March 2025 (Day 2), Time: 11:30 - 01:30 PM
Technical Session: T1 (S2)
Hall Name: Manthan Hall
THEME: IMPACT OF CLIMATE CHANGE ON GROUNDWATER AND ADAPTATION MEASURES

Session Chairs: L. Elango & Surjeet Singh

Sr. No.	Abstract-ID	Author	Title
Keynote		**L. Elango**	**Impact of climate change on coastal groundwater resources**
1.	**IGWC-240**	Priya P. Pillai	Climate Change and Groundwater Resilience in Tamil Nadu: Regional Impacts and Adaptive Strategies
2.	**IGWC-241**	Prajakta Avinash Shinde	Future-Proofing Groundwater: Modelling Impacts of Climate, Land Use, and Drought Vulnerability
3.	**IGWC-329**	Maushami	Impact of Urban Heat Island on Groundwater Recharge: A Bibliometric Analysis
4.	**IGWC-257**	Ashish Pathania	Insights into the August 2023 Punjab Floods: Hydrological and Operational Perspectives
5.	**IGWC-208**	N.C. Mondal	Rainfall-driven groundwater reserves in the Koyna basin, India: Assessing seasonal recharge and environmental interactions
6.	**IGWC-335**	Suchithra Sundaram	Variability of the Spring Arctic Sea Ice and Its Impact on Indian Summer Monsoon: A Hydrological Perspective
7.	**IGWC-349**	Devlal Soma Bhilavekar	Land Use Changes and Their Impact on Groundwater Sustainability in Narkhed-Pandhurna, Critical Zone Observatory, Central India
8.	**IGWC-389**	Kuldeep Sharma	High-Resolution Climate Projections for Groundwater Sustainability in The Himalayas Using WRF-Based Dynamical Downscaling
9.	**IGWC-433**	T. Thomas	Climate Change Impact Assessment on Groundwater Recharge in Narsinghpur District of Madhya Pradesh
10.	**IGWC-440**	Vijeta Singh	Hydrological Modelling Under Climate Change Scenarios: Sensitivity Analysis of Runoff Estimates in Ballia District

06th March 2025 (Day 2), Time: 11:30 - 01:30 PM
Technical Session: T3 (S2)
Hall Name: Jal Tarang Auditorium
THEME: MOUNTAIN HYDROLOGY AND SPRINGSHED MANAGEMENT

Session Chairs: Sanjeev Bhuchar & Sumit Sen

Sr. No.	Abstract-ID	Author	Title
Keynote		**Sanjeev Bhuchar**	**Understanding key enablers for scaling springshed management as nature-based solution**
		Sudhir Kumar	**Challenges of mountain hydrology and its impact on Springshed management**
1.	**IGWC-137**	Tanishtha Nandy	Apprisal of Hydro-Chemical Regime for Water Resource Characterization in Southern Part of Gaula Micro-Watershed, Uttarakhand, India
2.	**IGWC-154**	Faisal Abass Padder	Hydrological Vulnerability and Distribution of Springs in the Lidder Watershed, Kashmir Himalaya, India
3.	**IGWC-164**	Nikitasha Chatterjee	Investigation of Groundwater Recharge Zones in the Upper Ganga Basin, India
4	**IGWC-197**	Praveen Kumar	Springshed Management in the Lesser Himalayas Using a Geohydrological, Geospatial, and Geophysical Technique
5.	**IGWC-207**	Bhupendra Joshi	Evaluating Multiple Datasets for Modelling Snow-Glacier Melt Runoff Dynamics in Bhilangana Basin, India
6.	**IGWC-237**	Abhijit Sen	Mapping and Managing of Springshed for Water Conservation Using Geospatial Technology in Kalimpong District of Darjeeling Himalaya, India.
7.	**IGWC-342**	Lavkush Patel	Modelling Streamflow Dynamics and Climate Sensitivity in the Gangotri Glacier Watershed
8.	**IGWC-369**	Pravin Rangrao Patil	Land Surface Temperature Dynamics in A Lesser Himalayan Catchment

06th March 2025 (Day 2), Time: 11:30 - 01:30 PM
Technical Session: T4 (S2)
Hall Name: Lecture Room
THEME: WATER RESOURCES IN ARID AND SEMI-ARID REGIONS

Session Chairs: Vijay Kumar and Sanjay Kumar

Sr. No	Abstract-ID	Author	Title
Keynote		**Vijay Kumar**	**Submarine Groundwater Discharge : Indian Perspective**
1.	**IGWC-265**	Birendra Pratap	An Integrated Approach of GIS and AHP for Groundwater Potential Zone Mapping in Parts of Mirzapur District, Uttar Pradesh, India
2.	**IGWC-280**	Darshan Malviya	Hydrochemical Evolution of Groundwater in the Arid Regions of North-West India
3.	**IGWC-288**	Sudhir G. Jain	Study of Groundwater Discharge in Selected Area of Tapi Basin-District Jalgaon (Maharashtra)
4.	**IGWC-295**	Pavan Sai Kiran Koppukonda	Diversity of Perception on Groundwater Risk Factors and Conservation Practises: A Multi-Group Analysis From Tamil Nadu
5.	**IGWC-249**	Poonam	Water Quality Assessment and Health Impacts of Fluoride in Rajasthan's Chauka Systems
6.	**IGWC-172**	Bhagyashri C. Maggirwar	Assessing Drinking Water Scarcity in Semi-Arid Hard Rock Basaltic Aquifers Using Geomorphological Signatures in Karha River Basin from Western India
7.	**IGWC-219**	J. Sivaramakrishnan	Assessment of trends and decadal changes in groundwater resources in Tamil Nadu
8.	**IGWC-457**	Jugdambe Sharma	Forecasting of rainfall using deep learning algorithms for the Seonath river basin

06th March 2025 (Day 2), Time: 11:30 - 01:30 PM
Technical Session: T5 (S2)
Hall Name: Society Room
THEME: GROUNDWATER CONTAMINATION AND REMEDIATION

Session Chairs: Stefan Krause & P.K. Tripathi

Sr. No.	Abstract-ID	Author	Title
Keynote		**Stefan Krause**	**The impact of hydrometeorological extremes on contaminant fate and transport across urban terrestrial-aquatic interfaces**
1.	**IGWC-60**	Vinay Arya	Use of Hydro-chemical Indices for Mineral Dissolution and Pollutant Identification in the Middle Ganga Basin
2.	**IGWC-397**	Spandan Naskar	Fate, Transport, And Geochemical Interactions of Organo-Arsenic Compounds with Natural Minerals and Soils: Insights from Roxarsone Studies
3.	**IGWC-454**	Suraj Kumar	Integrated Assessment of Groundwater Quality Using EWQI and Variance Decomposition Method to Evaluate Fluoride-Induced Health Risks
4.	**IGWC-140**	Rinku Rani Das	Role of Geology and Geomorphology in Arsenic Distribution in Groundwater of the Cacher Fold Belt, Barak Valley Assam, India.
5.	**IGWC-141**	Adiva Khan	Hydrochemical Characterization of Groundwater and Assessment of Water Quality for Drinking and Agricultural Use in and Around Uranium-Contaminated Areas of Gwalior, Central India.
6.	**IGWC-412**	Bijoylakshmi Boruah	Synthesis of Bamboo Derived Activated Carbon for Groundwater Treatment: Turbidity and Hardness Reduction
7.	**IGWC-428**	Vinod Kumar	Hydro-Geochemical Investigations and Suitability of Groundwater for Drinking Purposes in Indore District, Madhya Pradesh
8.	**IGWC-117**	Subhashree Biswal	A Hydrogeochemical Approach to Evaluate the Groundwater Quality in the Coastal Aquifers of North Eastern Part of Odisha, India.
9.	**IGWC-65**	Rima Manik	Co-Transport of Engineered Nanoparticles and Bacteria in Water Saturated Porous Media

06th March 2025 (Day 2), Time: 11:30 - 01:30 PM
Technical Session: T6 (S1)
Hall Name: Sangam Hall
THEME: GROUNDWATER MODELING AND MANAGEMENT

Session Chairs: R.C Jain & P.K. Sharma

Sr. No.	Abstract-ID	Author	Title
Keynote		**R. C. Jain**	**Scarcity of water or scarcity of management in India**
		S. Pazhanivelan	**Geospatial tools in Water resource monitoring and management**
1.	**IGWC-17**	Ritaja Roy	Groundwater Pumping Induced Streamflow Decline
2.	**IGWC-66**	Abhishek Kurmi	Analytical Solution to Model Flow Behavior in Unconfined Dual Permeability Aquifers
3.	**IGWC-81**	Naved Hasan	Assessment and Prediction of Ciprofloxacin Antibiotic in Groundwater Due to Pharmaceutical Waste Disposal in Musi River, Hyderabad.
4.	**IGWC-89**	Arindam Roy	Numerical Modelling on the Transport of Benzene Under Variable-Density Flow
5.	**IGWC-203**	B Venkatesh	Evaluating Status of Groundwater Dynamics Using Geo-Spatial Water Level Fluctuation Mapping for Dindi Watershed
6.	**IGWC-204**	Abdul Razzaq Khan	Effects of Water Extraction on Maximum Longitudinal Plume Length: A Numerical Investigation for Contaminant Site Remediation
7.	**IGWC-209**	Stuti Srivastava	3-D Groundwater Flow Modelling in Yamuna Micro Watershed Using FEFLOW
8.	**IGWC-229**	G.M. Kartick	Effective Groundwater Monitoring Network for Modelling and Management at Micro-Watershed Scale

06th March 2025 (Day 2), Time: 02:30 - 04:15 PM
Technical Session: T3 (S3)
Hall Name: Lecture Room
THEME: MOUNTAIN HYDROLOGY AND SPRINGSHED MANAGEMENT

Session Chairs: Sanjay K Jain & A.S. Maurya

Sr. No.	Abstract-ID	Author	Title
Keynote		**Moti Lal Rijal**	**Status of Groundwater Resources in Nepal: Is it Sustainable to Fulfil Sustainable Development Goals?**
		S.K.M. Guite	**Policies for Implementation of Springshed Management Programs in Mountainous Regions of India: An Initiative of Ministry of Rural Development, Government of India**
1.	**IGWC-400**	Soban Singh Rawat	Past, Present and Future of Springshed Management in India
2.	**IGWC-407**	Ashwini Ranade	Dynamics and Climatic Changes in Large-Scale Extremes in the Northwest Himalaya: Implications for Regional Hydrology and Disaster Risk
3.	**IGWC-435**	Dharm Singh Meena	Hydrochemical Assessment of Water Resources of the River Henwal Catchment, Tehri Garhwal, Uttarakhand
4.	**IGWC-441**	Deepak Singh Bisht	ISHVAR – Information System of Himalayan Springs for Vulnerability Assessment and Rejuvenation
5.	**IGWC-446**	Sumit Rana	Hydrogeochemical characterization of hot springs in the Bhagirathi valley, Uttarakhand, India: Insights into geothermal resources and recharge mechanisms
6.	**IGWC-379**	Tanvi Umakant Khandekar	Morphometric Analysis for Prioritizating Sub-Watershed of Karli River Basin Using Geospatial Techniques
7.	**IGWC-384**	Somarendro Singh	Development of Springs in Hilly Terrains – A Case Study in West Siang District, Arunachal Pradesh, India
8.	**IGWC-376**	Tarun Pant	Spring Rejuvenation for Water Security in Himalaya: A Holistic Approach

06th March 2025 (Day 2), Time: 02:30 - 04:15 PM
Technical Session: T4 (S3)
Hall Name: Society Room
THEME: WATER RESOURCES IN ARID AND SEMI-ARID REGIONS

Session Chairs: Bellie Sivakumar & R.P. Pandey

Sr. No.	Abstract-ID	Author	Title
Keynote		**Bellie Sivakumar**	**Complexity and Connectivity in Groundwater Systems: Role of Chaos Theory and Complex Network Theory**
1.	**IGWC-312**	Faisal Imam Umrani	On the Relationship Between Geomorphic Connectivity and Peizometric Surface in A Semi-Arid Region, Lower Chambal Basin, India
2.	**IGWC-327**	Siddhi Sandip Mandre	Impact of Seasonal Reservoir Discharges on Groundwater Levels in Semi-Arid Regions: A Coupled Modelling Approach
3.	**IGWC-366**	Sourabh Nema	Rising Groundwater Levels in Jodhpur, India: Trends, Causes, and Sustainable Management Strategies
4.	**IGWC-394**	Lagudu Surinaidu	In-Depth Analysis of the Hydro-ecological Systems in the Water-Scarce Luni River Basin in North-Western India
5.	**IGWC-411**	Namrata Sankhla	Spatio-Temporal Analysis of Rainfall and Groundwater: A Case Study of Semi-Arid Region of Rajasthan, India
6.	**IGWC-337**	Sudesh Singh Choudhary	Efficient stormwater collection for sustainable water resource management in Sikar district, Rajasthan
7.	**IGWC-365**	Akshay Vyankat Dahiwale	Analysis of changing rainfall patterns in the Luni basin and it's impact on groundwater table dynamics

06th March 2025 (Day 2), Time: 02:30 - 04:15 PM
Technical Session: T5 (S3)
Hall Name: Jal Tarang Auditorium
THEME: GROUNDWATER CONTAMINATION AND REMEDIATION

Session Chairs: C. Sandhu & C. Mayilswami

Sr. No.	Abstract-ID	Author	Title
Keynote		C. Sandhu	**Riverbank Filtration for Irrigation at a Wastewater-Impacted River in An Arid Region**
1.	IGWC-57	Abhilash R	Geospatial Analytics for Analysing Fluoride Concentrations on Groundwater Quality Status in Parts of Nalgonda, Telangana
2.	IGWC-160	Gargi Singh	Impact of Land-Use and Land -Cover Change on Groundwater Quality in Northern Part of Odisha, India: A Hydrogeochemical and GIS Approach
3.	IGWC-161	Divya A S	Evaluation of Groundwater Suitability for Drinking and Irrigation Purposes in Pullamapatti Watershed Using CCME-WQI with Special Emphasis on Health Risk in Fluoride and Nitrate Contamination
4.	IGWC-169	Ancy P. Regi	Removal of Inorganic Contaminants from Groundwater Using Laterite Soil in Middle Western Ghats
5.	IGWC-177	Sourabh Dixit	Effect of Microplastics on the Dynamics of Emerging Contaminants in Groundwater
6.	IGWC-179	Kaptan Singh	Emerging Pollutants in Water, Sources, Health Impacts and Management
7.	IGWC-383	Madhukar Singh	The Principal Component Analysis and Modified Ground Water Quality Index - A Powerful, Actionable Tool for Ground Water Quality Assessment and Policy Intervention: A Case Study in Part of the Gangetic River Basin of Gorakhpur District, India
8.	IGWC-97	Puja Chowdhury	A Case Study on the Comparative Assessment of Groundwater Quality, Contamination - Health Risk Factor in the Hard Rock and Alluvial Terrains of Eastern India
9.	IGWC-338	Amitava Roy	Hydro-Fracturing the Unconventional Hydrocarbon Reservoir Rocks Like Shale and its Impact on Ground Water

06th March 2025 (Day 2), Time: 02:30 - 04:15 PM
Technical Session: T6 (S2)
Hall Name: Sangam Hall
THEME: GROUNDWATER MODELING AND MANAGEMENT

Session Chairs: Carlos Andres & Vishal Singh

Sr. No.	Abstract-ID	Author	Title
Keynote		**Carlos Andres Rivera Villarreyes**	**Towards the Future of Groundwater Modelling: From Conceptualization to Uncertainty Quantification**
1.	**IGWC-129**	Dwarampudi Sai Kalyan Bulli Reddy	GIS-based Groundwater Potential Analysis for Sustainable Extraction and Recharge Planning: A Case Study from North Chennai, Tamil Nadu, India
2.	**IGWC-135**	Ranveer Kumar	River Aquifer Exchange Dynamics in Varuna River Through Differential Flow Gauging and Numerical Groundwater Modelling
3.	**IGWC-163**	Deepak Kumar	Assessment and Prioritization of Groundwater Quality Parameters Using MCDM Techniques
4.	**IGWC-182**	Rajyashree Nandy	Groundwater Characterization Through Modelling Exercise in the Upper Part of Ajoy-Damodar Interfluve of West Bengal
5.	**IGWC-186**	Vikas Singh	Groundwater Management Using Coupled Meshless Numerical Models and Machine Learning Techniques
6.	**IGWC-233**	Shivam Chaubey	Assessment and Forecasting of Groundwater Trends in the Bundelkhand Region: Implications for Water Scarcity and Resource Management
7.	**IGWC-328**	Jalaj Limaye	Simulating Groundwater Levels and Pollution in Pune
8.	**IGWC-20**	K.B.V.N. Phanindra	Transient Hydraulic Tomography Inversion Using Sequential Gaussian Mixture Model

06th March 2025 (Day 2), Time: 02:30 - 04:15 PM
Technical Session: T13 (S1)
Hall Name: Manthan Hall
THEME: PROTECTION OF GROUNDWATER DEPENDENT ECOSYSTEMS - RIVERS, WETLANDS, LAKES AND SPRINGS
Session Chairs: A.K. Lohani & Omkar Singh

Sr. No.	Abstract-Id	Author	Title
Keynote		**Basant Maheshwari**	**Participatory Approach for Sustaining Groundwater and Improving Livelihood: Lessons from the MARVI Project in Rural India**
1.	**IGWC-150**	Thallam Prashanth	A Holistic Approach for Identifying Artificial Groundwater Recharge Zones to Rejuvenate Ungauged Lakes Affected by Groundwater Drought
2.	**IGWC-464**	Maria Isabel Chambi Tapia	Sediment-Water Interaction and Its Impact on Hydrogeochemistry in the Sajama National Park, Volcanic Zone of the Central Bolivian Altiplano
3.	**IGWC-194**	Sanjayan M S	Terrain Modelling of Mananthavady River Basin, Wayanad District, Kerala, India
4.	**IGWC-215**	Robert William Raj. A	Permanent Solution for Flood and Drought Conditions – A New Scientific and Nature Based Water Networking Protocol to Neutralize the Global Threats and Ensure Water Security for the Future Generations by Focusing on Groundwater
5.	**IGWC-259**	Abhishek Gupta	Quantification of Flood Mitigation Services by Groundwater-Dependent Water Resources Using Invest Model for the Wainganga Basin, India
6.	**IGWC-230**	Shivani A Mehta	System Dynamics and Modelling of Micro-Watersheds
7.	**IGWC-444**	Anshumali	Water Quality and Geochemical Assessment of Terracotta Dug wells: An Implication in Restoration and Conservation of Ancient Civilization
8.	**IGWC-190**	Sanjay Satpute	Assessment Of Reservoir Sedimentation Using Geospatial Technique: A Case Study of Saleran Reservoir in Shivalik Foot-Hills of North-West India

06th March 2025 (Day 2), Time: 02:30 - 04:15 PM

POSTER SESSION

Sr. No.	Abstract-Id	Author	Title
1.	IGWC-324	Rajat Kumar	Prioritizing Groundwater Potential and Soil Erosion-Prone Zones Using Morphometric, Hypsometric, and Compound Factor Approaches in the Beas Basin, Himachal Pradesh
2.	IGWC-178	Megha S B	Identification of Morphometrical Parameters Using Geospatial Techniques of Tropical River Basin, Kerala, India
3.	IGWC-238	Neha Rarh	Hydrological Investigations of Chamasari Springs Using Stable Isotopes as Natural Tracers
4.	IGWC-279	Dinesh Rai	Groundwater Dating in Two Northwest Indian States
5.	IGWC-381	Pankaj Patidar	Water Quality Analysis of Nainital Lake by Integrating Satellite Data and Laboratory Experiments
6.	IGWC-152	Mahima Choudhary	Constructed Wetlands for Removing Pesticides and Antibiotics from Contaminated Water
7.	IGWC-448	Dinesh Kumar Singh	Digital Twin of Sustainable Water Management for Village
8.	IGWC-232	Mohd Faraz Khan	Microplastic Contamination in the Unconfined Groundwater Aquifer of Haridwar, India.
9.	IGWC-303	Ishadaya Ghodeswar	A Study of Pre- and Post-Monsoon Water level and Water level Fluctuation of Northern Part of WRJ-2 Watershed, Nagpur District, Maharashtra State.
10.	IGWC-74	Lisha Borgohain	Assessment of Groundwater and Surface Water Quality in the Southern Brahmaputra Floodplains, Assam: Insights from Hydrochemical Analysis and Isotope Study
11.	IGWC-98	Nibedita Jena	Geochemical Assessment of Groundwater Contamination with Special Emphasis on Flouride Concentration in Sono River Basin, Balasore District, Odisha, India
12.	IGWC-86	Suhani Srujanika	Assessment of hydrochemistry and source identification of groundwater contamination along the coastline of Odisha, India using geospatial and statistical tools
13.	IGWC-151	Mayank Bahuguna	Application of Rice Husk Modified Biochar for Groundwater Remediation
14.	IGWC-395	Raju Rai	Hydrogeochemical Investigation of Groundwater and Surface Water Quality in the Mining-Impacted Regions of Northern Coal Field Singrauli, Central India

15.	**IGWC-338**	Amitava Roy	Hydro-Fracturing the Unconventional Hydrocarbon Reservoir Rocks Like Shale and its Impact on Ground Water
16.	**IGWC-368**	Sury Kant Singh	Evaluation of Impact of Mining on Groundwater Quality in and Around Singrauli Coalfield, India
17.	**IGWC-23**	Shaista Parvez Khan	Assessing Groundwater Quality: Variability and Distribution of Major and Trace Ions in Chhattisgarh, India
18.	**IGWC-325**	Abhijit Dharashivkar	Rainfall and its Variation in and Around Bhanegao and Singori Open Cast Coal Mining Area, District Nagpur
19.	**IGWC-292**	Mayurakshi Gogoi	Investigating the Geochemical Characteristics of Springs and Groundwater Potential in Assam Hills for Sustainable Springshed Management
20.	**IGWC-341**	Siddharth Rana	Natural Springs Water Quality Evaluation Using Water Quality Index and Geospatial Techniques in Bhilangana Block of Tehri Garhwal District, Uttarakhand, India
21.	**IGWC-354**	Puthiyottil Nijesh	Environmental Isotopes for Management of Springshed in the Khulgad Watershed of Kosi River Basin, Kumaun Lesser Himalaya, India
22.	**IGWC-398**	Ayush Kukreti	Hydrochemical Analysis of Springs Water in Pratapnagar Block, Tehri Garhwal of Uttarakhand
23.	**IGWC-101**	Himadri Sekhar Roy	Analysis of the Quality, and Identification of the Sources of Ions in the Groundwater- A Case Study in Silguri and Matigara Blocks, Darjeeling District, West Bengal
24.	**IGWC-32**	Samapika Das	Groundwater Quality Assessment in Semi-Arid Region of North-Western Part of Odisha, India
25.	**IGWC-92**	Nirban Laskar	Seasonal Assessment of Groundwater Quality and Practice of Water Use Management in Champhai and Mamit District of Mizoram, India
26.	**IGWC-270**	Rajat Kumar	Estimating Soil Erosion using RUSLE Model Technique in Amba River Basin, Maharashtra
27.	**IGWC-187**	Jyoti Gautam	Revolutionizing Smart Water Safety: A Fast, Low-Cost Paper Strip Dip Test for On-Site Bacterial Contamination Detection

06th March 2025 (Day 2), Time: 04:45 - 06:30 PM
Technical Session: T5 (S4)
Hall Name: Society Room
THEME: GROUNDWATER CONTAMINATION AND REMEDIATION

Session Chairs: Daniel Lapworth & Rajesh Singh

Sr. No.	Abstract-ID	Author	Title
Keynote		**Daniel Lapworth**	**From salinity to emerging contaminants – groundwater quality challenges and the need to redouble efforts to improve groundwater quality assessments**
1.	**IGWC-188**	Mohd Faraz Khan	Drip Irrigation Promoted Migration of Microplastic Particles Across Vertical Soil Columns
2.	**IGWC-196**	Prasanta Kumar Sahoo	Design and Fabrication of Ag-Modified Porous Three-Dimensional Reduced Graphene Oxide-Based Electrochemical Sensor for the Sensitive and Selective Detection of Mercury Ions in Water and Soil Samples.
3.	**IGWC-218**	Vishwatma Biswas	Exploring Electrochemical Oxidation for the Removal of Bisphenol-A from Contaminated Groundwater
4.	**IGWC-221**	Vijayakumar G	Occurrence and Extent of Elevated Uranium Contamination in the Ground Water Sources, Krishnagiri District, Tamil Nadu
5.	**IGWC-239**	Anuja Joseph	Fluorescence-Based Detection of Microplastics: Advancing Rapid and Reliable Water Quality Monitoring
6.	**IGWC-138**	Suja Subramanian	Evaluation of Hydro Chemical Characteristics and Heavy Metal Concentration of Groundwater at Kalpakian Coastal Site, Tamil Nadu
7.	**IGWC-336**	Catherine Louis	Comprehensive Groundwater Quality Analysis in Punjab State, India
8.	**IGWC-462**	Lizangela Huallpara	Spatial Distribution of Arsenic, Boron and Lithium as Key Determinants of Groundwater Quality Index in the Lauca River Basin, Bolivian Altiplano

06th March 2025 (Day 2), Time: 04:45 - 06:30 PM
Technical Session: T6 (S3)
Hall Name: Manthan Hall
THEME: GROUNDWATER MODELING AND MANAGEMENT

Session Chairs: T.I. Eldho & B. Venkatesh

Sr. No.	Abstract-ID	Author	Title
Keynote		**T.I. Eldho**	**Developments in Meshless Numerical Methods and Its Applications in Groundwater Management**
		Vivek Bedekar	**Use of Regional Scale Models for Water Resources Assessment, Planning, and Management**
1.	**IGWC-276**	Rohan Vishwasrao Pawar	Participatory Groundwater Management Towards Sustainable Development of an Aquifer – A Case Study Aquifer from Satara District, Maharashtra, India
2.	**IGWC-285**	Shruti Jain	A Finite Volume Method-Based Numerical Model for Coupled Subsurface Flow and Contaminant Transport Dynamics
3.	**IGWC-372**	Ashfaque Majeed Gojree	Mathematical Modelling of Groundwater Flow in Heterogeneous Soil Using the Finite Difference Method.
4.	**IGWC-419**	Udit Saxena	Temporal Analysis and Predictive Modelling of Groundwater Dynamics in Sambhal District, Uttar Pradesh
5.	**IGWC-320**	Palugulla Subashini Reddy	Flow Model for Groundwater Recharge Potential
6.	**IGWC-439**	Mohit Kansal	Quantitative Insights and Groundwater Flow Modeling in Open-pit Mines
7.	**IGWC-316**	Lolali Nanda	Unveiling the Hidden Waters: Integrating SWAT-MODFLOW For Mahanadi River Basin's Water Dynamics
8.	**IGWC-423**	Prajakta Jadhav	Fluoride contamination and associate health risk across the state of Maharashtra, India

06th March 2025 (Day 2), Time: 04:45 - 06:30 PM
Technical Session: T7 (S1)
Hall Name: Sangam Hall
THEME: ADVANCED TECHNIQUES FOR GROUNDWATER EXPLORATION AND ASSESSMENT

Session Chairs: Subhash Chandra & S.P. Rai

Sr. No.	Abstract-ID	Author	Title
Keynote		**Subhash Chandra**	**AEM signature of paleochannels: Implications towards groundwater security under changing climate**
1.	**IGWC-82**	Govind Singh Bhardwaj	Interpretation and Interpolation of Electrical Resistivity Data Using Inverse Plot Method: Case Study of Ground Water Exploration in Hard Rock Areas of Rajasthan.
2.	**IGWC-84**	Maya Raghunath Suryawanshi	Grace Satellite Data and Observed Well Levels Reveal the Relation Between Specific Yield and Groundwater Depth
3.	**IGWC-108**	Akshay Rajendra Kharve	Deducing Groundwater Potential Zones in the Wainganga Basin, Central India Using Ahp and Geospatial Techniques
4.	**IGWC-114**	Ayush Kesharwani	Field Experiment for Sustainable Groundwater Management: Evaluating Discharge Measurement Methods and Aquifer Characteristics in An Alluvial Aquifers of North-Western India
5.	**IGWC-124**	Anupama Patil	Development of Groundwater Sustainability Using Advanced Geophysical Techniques in Drought Prone Area: A Case Study of Rajapur Village Located Yeola Tehsil, District Nashik, Maharashtra, India
6.	**IGWC-128**	Pavithra S L	Groundwater Potential Zones Using AHP Technique for Thiruvananthapuram District, Kerala
7.	**IGWC-139**	Sujatro Ray Chowdhuri	Assessment of Dynamic and Static Ground Water Resources Through Aquifer Mapping in Siddhartnagar District, Uttar Pradesh, India
8.	**IGWC-63**	Bijoy Krishna Chetia	Lithological Modelling of Jorhat and Majuli District, Assam, India Using Well Log Data and Delineation of Groundwater Potential Zone for Groundwater Resource Management
9.	**IGWC-296**	Harikrishnan G	Assessment of Hydrological Characteristics of Kameng River Basin Based on Morphometric Parameters Using Geospatial Technology

06th March 2025 (Day 2), Time: 04:45 - 06:30 PM
Technical Session: T8 (S1)
Hall Name: Lecture Room
THEME: AUGMENTATION OF GROUNDWATER RESOURCES

Session Chairs: Sudhir Kumar & Anitha Shyam

Sr. No.	Abstract-Id	Author	Title
Keynote		**Sushil Gupta**	**Groundwater Management Strategies towards Sustainable Water Supplies to Chandigarh**
1.	**IGWC-127**	N.V. Sharma	Augmentation of Groundwater Resources Through Technical Surveys and Community Involvement the Buldhana District, Maharashtra, India.
2.	**IGWC-165**	Yaggesh Kumar Sharma	Evaluating Pond Recharge Potential in the Ramganga Basin with Data-Driven Modelling Approaches
3.	**IGWC-252**	Mahesh Chand Singh	Groundwater Recharge Zoning and Artificial Recharge Site Identification in Chohal and Damsal Command Areas, Hoshiarpur, Punjab Using Geospatial Techniques
4.	**IGWC-278T**	Shivaji Tulshiram Padmane	Artificial Recharge to Groundwater Level Declining Area Using Canal Water of Bhandara District, Maharashtra, India.
5.	**IGWC-134**	K. A. Jadhav	Sustaining Groundwater Resource Through Socio-Hydrogeological Approach: A Comprehensive Study in A Cluster of Overexploited Villages in Amravati District, Maharashtra
6.	**IGWC-308**	Nitin Saini	Quantifying Rainwater Harvesting Potential Across Various Topographies: A Ten-Site Study for Five States in India
7.	**IGWC-343**	Sandeep Sagar	Assessment of Groundwater Vulnerability in Jharkhand Region of India Using Drastic Model
8.	**IGWC-466**	Nagraj S. Patil	A Multi-Faceted Approach for Assessing Groundwater Recharge Potential in The Beguru Sub-Watershed, Karnataka, India

06th March 2025 (Day 2), Time: 04:45 - 06:30 PM
Technical Session: T11 (S1)
Hall Name: Jal Tarang Auditorium
THEME: APPLICATION OF AI, ML, IOT, CLOUD COMPUTING AND OTHER ADVANCED TECHNIQUES IN GROUNDWATER
Session Chairs: A.K. Keshari & Archana Sarkar

Sr. No.	Abstract-Id	Author	Title
Keynote		A.K. Keshari	**Harnessing machine learning and design science for climate change adaptation in groundwater**
1.	IGWC-273	Bibhukalyan Mohapatra	Prioritization of Sub-watershed of Phalgu River Basin (PRB), Middle Ganga Plain Using Integrated PCA and Machine Learning Approach
2.	IGWC-80	Mayank Bajpai	Advancing Groundwater Level Prediction Using Physics-Informed Neural Networks and Machine Learning for Transient Head Variation
3.	IGWC-95	Prajakta Jadhav	Groundwater Potential Zones Mapping Using Artificial Intelligence Techniques for Surat District, India
4.	IGWC-181	Dolon Banerjee	Integrating Remote Sensing, GIS, and Machine Learning for Groundwater Logging Detection and Forecasting in Agriculture-Dominated Regions
5.	IGWC-201	Vaishnavi Pariha	Data-Driven Groundwater Management in Water Stress Area of Central India: A Machine Learning Algorithm Based Analysis of Aquifer Dynamics and Over-Extraction Risks Using High Frequency Data
6.	IGWC-211	Suresh Thonte	Development of User Interface for Sustainable Groundwater Management by Integrating the AI, ML, IoT, Cloud Computing and Other Advanced Techniques
7.	IGWC-226	Ashish Gupta	Real-Time Groundwater Prediction Models Using RNN and LSTM Techniques

07th March 2025 (Day 3), Time: 09:00 - 11:00 AM
Technical Session: T5 (S5)
Hall Name: Jal Tarang Auditorium
THEME: GROUNDWATER CONTAMINATION AND REMEDIATION

Session Chairs: M.K. Sharma & J.P. Patra

Sr. No.	Abstract-ID	Author	Title
Keynote		**Indumathi Nambi**	**Groundwater contamination in landfill sites**
		N.C. Mondal	**Arsenic Contamination and Groundwater Hydrodynamics: Geoscientific Insights from the Ganga Basin, Northern India**
1.	IGWC-277	Rohan Vishwas Rao Pawar	Geochemical and Hydrochemical Evaluation of Groundwater in Semi-Arid Phaltan Area, Satara District, Maharashtra: Implications for Potable Water and Agricultural Use
2.	IGWC-345	Ashish Daydar	Freshwater Resources Under Microplastics Siege: A Glance at Asia
3.	IGWC-281	Gourav Sharma	Polycyclic Aromatic Hydrocarbons in Surface and Groundwater: Distribution, Health Risk, and Management
4.	IGWC-293	Ritu Thakur	Comparative Hydrogeochemical Assessment of Shallow Tubewell in Parts of North and South Bank Plain of Brahmaputra
5.	IGWC-298	Sumita Sarkar	Hydrogeochemical Appraisal of Groundwater in Bolograph Block of Khurda District, Odisha.
6.	IGWC-64	Rajeev Gandhi	Assessing Groundwater Contamination in Madhya Pradesh: Sources, Impacts, and Regulatory Responses in a Rapidly Industrializing Landscape
7.	IGWC-506	Ajit Kumar	Potassium Retention and Transport in Agricultural Soils Under Treated Wastewater Irrigation: Mechanisms and Environmental Implications
8.	IGWC-183	Akash Tiwari	An integrated GIS and machine learning based approach for groundwater quality assessment, its hydrochemical characterization, and assessment of the non-carcinogenic health risk in India

07th March 2025 (Day 3), Time: 09:00 - 11:00 AM
Technical Session: T7 (S2)
Hall Name: Society Room
THEME: ADVANCED TECHNIQUES FOR GROUNDWATER EXPLORATION AND ASSESSMENT

Session Chairs: M.L. Kansal & Pradeep Kumar

Sr. No.	Abstract-ID	Author	Title
Keynote		**M.L. Kansal**	**Vanishing Groundwater - Seeking Pathways for Water Security in the NCT of Delhi**
1.	**IGWC-145**	Sukant Jain	Monitoring Groundwater Fluctuations in Agroclimatic Zones of India Using GRACE Satellite Data and Precipitation Correlation Analysis
2.	**IGWC-146**	Irshad Shaikh	Role of Electrical Resistivity Method for Groundwater Exploration
3.	**IGWC-251**	N. Narsimha Naidu	Demarcation And Assessment of Inland Salinity/Groundwater Quality in Parts of Western Dharwad Carton from Transient Electromagnetic Soundings.
4.	**IGWC-243**	Jatin Chaudhary	Identifying Groundwater Potential Zones in Delhi NCR Using Integrated Remote Sensing, GIS, and AHP Approaches
5.	**IGWC-284**	Ashish Dobhal	Integrating Remote Sensing, GIS and Machine Learning Techniques for Assessing Groundwater Availability
6.	**IGWC-291**	Rachna Bhatti	A Pan India Initiative -To Know Your Aquifer & Manage Your Aquifer Under National Aquifer Mapping and Management (NAQUIM) Program
7.	**IGWC-318**	Bhawna Siwach	Geospatial Analysis for Groundwater Resource Assessment: A Case Study of Kirti Nagar Block, Tehri Garhwal, Uttarakhand
8.	**IGWC-300**	Ravi Shankar Dubey	Integrated Geohydrological, Geospatial, and Geophysical Approaches for Sustainable Groundwater Management in the Bundelkhand Cratonic Region
9.	**IGWC-508**	RV Kale	Development of Web-based Baseflow Separation Analysis Tool

07th March 2025 (Day 3), Time: 09:00 - 11:00 AM
Technical Session: T8 (S2)
Hall Name: Sangam Hall
THEME: AUGMENTATION OF GROUNDWATER RESOURCES

Session Chairs: D.S. Arya & Prabhash Mishra

Sr. No.	Abstract-Id	Author	Title
Keynote		Dr Donald J MacAllister	Unravelling Long-term contributions to recharge in the Indus Basin
1.	IGWC-309	Nitin Saini	Delineating Groundwater Level Impact from Rainwater Harvesting Recharge Wells Across Diverse Indian Geographies: Implications for Sustainable Management
2.	IGWC-415	Cornelius Sandhu	Potential and Challenges of Riverbank Filtration in North and Northeast India
3.	IGWC-422	C.P. Priju	Identification of Feasible Sites for the Construction of Subsurface Dykes (SSD) in the Drought Prone Areas of Palakkad District, Kerala: Application of Geophysical Techniques
4.	IGWC-375	Pallavi Sharma	Assessment of Rainwater Harvesting System to Combat Water Scarcity and Recharge of Aquifers in Guwahati City, Assam, India
5.	IGWC-250	Ashwin Adhip Acharya	Groundwater Potential Zonation Mapping Using Topsis, Vikor, Fuzzy Ahp and Edas: A Case Study of the Sharavati River Basin, Karnataka, India
6.	IGWC-467	Praveen Kalura	Geospatial and Hydrogeological Perspective on Groundwater Depletion Trends and Recharge Strategies in an Agriculture Dominated Watershed for Future Water Security
7.	IGWC-361	M.S. Jatav	Spatial Analysis of Groundwater Potential Zones in Dhasan Basin of Bundelkhand Region, Madhya Pradesh
8.	IGWC-96	Shubham Goswami	Assessing Groundwater Recharge and Sustainable Extraction Rates for Water Resource Management

07th March 2025 (Day 3), Time: 09:00 - 11:00 AM
Technical Session: T9 (S1)
Hall Name: Lecture Room
THEME: COASTAL WATER RESOURCES MANAGEMENT

Session Chairs: P. Nandkumaran & Brijesh K. Yadav

Sr. No.	Abstract-Id	Author	Title
Keynote		**Brijesh K. Yadav**	**Emerging Approaches to Protect and Manage Coastal Groundwater Resources**
1.	**IGWC-112**	Ananya Muduli	Investigating the Strong Correlation Between Salinity and Submarine Groundwater Discharge with Groundwater Potential Along a Tropical Coastline
2.	**IGWC-173**	Sneha Das	Application of Multi-Spectral Analysis for Management of Coastal Aquifers in Parts of Southern West Bengal, India
3.	**IGWC-180**	Rina Kumari	Seawater Intrusion in the Coastal Aquifers of Gujarat, India, An Integrated Approach
4.	**IGWC-206**	Soumya Ranjan Sahoo	Contribution of Groundwater Discharge in Low Flow Sustenance of the Baitarani River Basin
5.	**IGWC-222**	Saravanan Subbarayan	Comparative Assessment of Groundwater Vulnerability Models in Coastal Andhra Pradesh: Drastic, Sintacs, and God Approaches
6.	**IGWC-287**	Apurva Mehta	Sea Water Intrusion Assessment for A Costal Aquifer Using Mesless Local Petrov-Galerkin (MLPG) Method
7.	**IGWC-378**	Ajit Kumar Behera	Saltwater intrusion modeling and groundwater dynamics in the coastal aquifer system of the Mahanadi delta, Odisha: A cyclone-prone region of India
8.	**IGWC-386**	Sumanta Bhattacharya	Application of Advance Scientific Innovations and Policy Regulations for Sustainable Coastal Governance and Resource Management for Coastal Industrialization to Aim Towards Viksit Bharat @2047
9.	**IGWC-442**	Ranjan Sinha	Delineation of Aquifer Geometry and Fresh Saline Interface in Coastal Parts of Kasai - Suvarnarekha Basin, Eastern India

07th March 2025 (Day 3), Time: 09:00 - 11:00 AM
Technical Session: T10 (S1)
Hall Name: Manthan Hall
THEME: POLICY, REGULATION GOVERNANCE AND COMMUNITY PARTICIPATION FOR GROUNDWATER MANAGEMENT
Session Chairs: T.B.N. Singh & V.C. Goyal

Sr. No.	Abstract-Id	Author	Title
Keynote		**Giriraj Amarnath**	**Water Security in the Age of Extremes: Groundwater Solutions for Climate-Resilient Growth**
1.	**IGWC-362**	Sumanta Bhattacharya	Regulatory Framework and Policy Implications for Sustainable Groundwater Management Through Advanced Scientific Innovation for Viksit Bharat@ 2047
2.	**IGWC-416**	Archana Sarkar	Interstate Water Disputes in India and the Role of Groundwater
3.	**IGWC-307**	Sneha Pradhan	Addressing groundwater depletion in Kolkata: Sustainable strategies for urban groundwater management
4.	**IGWC-453**	Papori Baruah	Ground Water Vision 2047: Ensuring Water Security in a changing climate through Sustainable Management Practice for India.
5.	**IGWC-289**	Arjit Mishra	Multi-Stakeholder Led Initiative on River-Wetland Co-Management in the Aril River Basin, Uttar Pradesh
6.	**IGWC-136**	Sankha Subhra Nath	Community Based Resuscitation of Minor Waterways in Upper GBM Delta: Case of Buri Ganga, West Bengal

07th March 2025 (Day 3), Time: 11:30 - 01:30 PM
Technical Session: T5 (S6)
Hall Name: Jal Tarang Auditorium
THEME: GROUNDWATER CONTAMINATION AND REMEDIATION

Session Chairs: Y.R.S. Rao and Ashwini Ranade

Sr. No	Abstract-ID	Author	Title
Keynote		D.C. Singhal	**A New Geophysical Approach to Ascertain Risk of groundwater contamination In Unconfined Alluvial Aquifers: A Review**
1.	IGWC-353	Manisha Das	Cr(VI) Transport Modelling in Modified Tothian Basin in a Two Layered Aquifer System
2.	IGWC-357	Dilip Barman	Health Risk Assessment of Fluoride Contamination in Groundwater: A Case Study of Alwar District, Rajasthan
3.	IGWC-364	Aniket Choudhary	Influence of Mineral Weathering Sequence and Organo-Mineral Complexes on Fate and Transport of Nanoplastics in Riverine and Groundwater Systems
4.	IGWC-47	Sonali Aswal	Impact of Municipal Solid Waste Leachate on Groundwater Quality and Its Potential Public Health Risk
5.	IGWC-373	Abhinesh Kumar Singh	Hydro-Geochemistry and Isotopic Characterization of Phreatic Groundwater in Part of Central Ganga Plain, India
6.	IGWC-374	Nandkishor Borkar	Assessment of Groundwater Quality with Special References to Fluoride Concentration Around Bhiwapur, Nagpur District, Maharashtra, India
7.	IGWC-460	Shruti Singh	A Comparative Study of Biofilter, Vermifilter, And Macrophyte-Assisted Vermifilter for Treatment of Cattle Feedlot Wastewater
8.	IGWC-370	Runti Choudhury	Hydrogeochemistry and Lead (Pb) Contamination of Groundwater in Guwahati City, Assam, India
9.	IGWC-143	Sanchari Banerjee	Comparative Analysis of Drinking Water Quality Using Arithmetic and Entropy-weighted methods in Jaipur District, Rajasthan, India
10.	IGWC-338	Dipankar Saha	Hydro-Fracturing the Unconventional Hydrocarbon Reservoir Rocks Like Shale and its Impact on Ground Water

07th March 2025 (Day 3), Time: 11:30 - 01:30 PM
Technical Session: T7 (S3)
Hall Name: Lecture Room
THEME: ADVANCED TECHNIQUES FOR GROUNDWATER EXPLORATION AND ASSESSMENT

Session Chairs: Sreekanth J. & P.G. Jose

Sr. No.	Abstract-ID	Author	Title
Keynote		**Sreekanth J.**	**The Role of Groundwater for Water Security in the Australian Murray Darling Basin and the Indian Ganga Basin**
1.	**IGWC-339**	Somvir Singh	Estimation of Aquifer Hydraulic Characteristics Using Dar-Zarrouk Parameters: A Case Study of Lohaghat Block, Champawat District, Uttarakhand
2.	**IGWC-350**	Pintu Gupta	Mapping Aquifer Potential: A Hydrogeological Investigation of the Luni River Basin, Rajasthan, India
3.	**IGWC-391**	Surender Pal	Satellite Based Approach to Estimate the Groundwater Storage Changes and Land Deformation for Jodhpur City
4.	**IGWC-396**	Survey Daman Sharma	Geophysical Investigations to Quantify Freshwater Storage for Conjunctive Water Resource Management in IGNP
5.	**IGWC-403**	Ashish Pratap Singh	Geospatial Delineation of Groundwater Potential Zones: A Multi-Criteria Approach for Problematic Districts of Bundelkshand and Kymore Plateau, India.
6.	**IGWC-275**	Chandrakant Prabhakar Bhoyar	An Excel Based Programming Approach to Analyze Pumping Test Data from Large Diameter Well by Papadopulos-Cooper (1967) Method Using Drawdown and Recovery Phase Data.
7.	**IGWC-425**	Anshumali	Quantification and geospatial mapping of dug wells in disappearing dry tropical watersheds
8.	**IGWC-429**	Rahul Kumar	Groundwater Level and Aquifer Parameters Analysis in the Yamuna River Basin for Sustainable Groundwater Management.
9.	**IGWC-184**	Nilotpal Lahkar	Geospatial Mapping of Groundwater Potential Zones Using AHP Approach in Kopili River Sub-basin, India

07th March 2025 (Day 3), Time: 11:30 - 01:30 PM
Technical Session: T8 (S3)
Hall Name: Manthan Hall
THEME: AUGMENTATION OF GROUNDWATER RESOURCES

Session Chairs: Alex Furman & L.N. Thakural

Sr. No.	Abstract-Id	Author	Title
Keynote		**Alex Furman**	**Soil Aquifer Treatment: Process Optimization and Alternative Approaches**
		R.M. Patel	**Implementation of Atal Bhujal Yojana for Sustainable Ground Water Resources Management in Gujarat**
1.	**IGWC-319**	Giridhara.Ch.	Mapping of Vulnerable Area of Drinking Water in Maharashtra
2.	**IGWC-322**	Varsha Mane	Identification of Cause for Water Level Depletion in Coal Mine Area of Nagpur District, India
3.	**IGWC-310**	Apurva D. Fuladi	An Artificial Recharge in the Deccan Basaltic Terrain: A Case Study of the Exploited Deo Mini-Watershed, Amravati District, Maharashtra, India
4.	**IGWC-311**	Salahuddin Saiphy	Impact of Water Conservation Measures Through Check Dams on Water Resources in Semi-Arid Regions: A Case Study from Anantapur, Andhra Pradesh, India
5.	**IGWC-465**	Ragini Saraswati	Artificial Recharge of Groundwater: Processes and its Impact in India
6.	**IGWC-246**	Sanjay Tukaram Satpute	Groundwater Recharge Potential of Village Ponds in Ludhiana District of Punjab, India
7.	**IGWC-333**	Samanpreet Kaur	Integrating Hydrogeology and Geospatial Techniques for Groundwater Potential Mapping in the Sirhind Canal Tract, Punjab
8.	**IGWC-70**	Shiv Narayan Singh	Effective Managed Aquifer Recharge: Insights from Gujarat using Precast Modular Systems and Johnson Screens

07th March 2025 (Day 3), Time: 11:30 - 01:30 PM
Technical Session: T11 (S2)
Hall Name: Sangam Hall
THEME: APPLICATION OF AI, ML, IOT, CLOUD COMPUTING AND OTHER ADVANCED TECHNIQUES IN GROUNDWATER
Session Chairs: C.S.P Ojha & P.C. Nayak

Sr. No.	Abstract-Id	Author	Title
Keynote		**CSP Ojha**	**Evaluation of Machine Learning Techniques In Groundwater Level Prediction For Sustainable Water Resource Management**
1.	**IGWC-262**	Malavika A R	Comparative Performance Analysis of Linear Regression, KNN, and Random Forest for Modelling Total Dissolved Solids in Groundwater: A Case Study
2.	**IGWC-253**	Mahesh Chand Singh	Development of a Sedimentation Information System for Reservoirs in the Kandi Region, Punjab
3.	**IGWC-367**	Prabhash Kumar Mishra	Utility of Open and Satellite-Based Data for Groundwater Resource Estimation Using Water Accounting Plus (WA+) Framework for An Indian Peninsular Basin
4.	**IGWC-290**	Siddhartha Baidya	Cleaner Technology for Reducing Fresh Water Consumption in the Electroplating Sector of Moradabad: Counter Current Mechanism (CCM)
5.	**IGWC-404**	Kritika Bansal	Design, Implementation and Validation of An Automated Infiltrometer
6.	**IGWC-438**	Manish Subba	Assessing Groundwater Resources in Sikkim Using Remote Sensing, Gis, and Google Earth Engine
7.	**IGWC-167**	Shreyansh Mishra	Application Of Kolmogorov-Arnold Network (KAN) for Predicting Groundwater Levels with Enhanced Interpret-Ability
8.	**IGWC-170**	Devanand Guleri	Groundwater Quality Prediction using Machine Learning
9.	**IGWC-358**	Harsh Upadhyay	ET-Based Irrigation Performance Assessment of a Command Area Using Google Earth Engine

07th March 2025 (Day 3), Time: 11:30 - 01:30 PM
Technical Session: T12 (S1)
Hall Name: Society Room
THEME: VADOSE ZONE HYDROLOGY AND AGRICULTURE WATER MANAGEMENT

Session Chairs: Daniel D. Snow & M.K. Nema

Sr. No.	Abstract-Id	Author	Title
Keynote		**Daniel D. Snow**	**Groundwater Use Under Intensive Agriculture**
1.	**IGWC-158**	Arivoli E	Significance of Soil Moisture Probes in Calibrating Hydrological Models
2.	**IGWC-274**	Anil Kumar Srivastva	Road Map for Water Efficient Farming in Indian Himalaya
3.	**IGWC-359**	Dilip Barman	Assessment of Agricultural Water and Land Productivity Using Water Accounting Plus Framework for Luni River Basin, India
4.	**IGWC- 360**	Parth Sarthi	Intensive Irrigation Affecting Groundwater Quality; A Case Study from Punjab, India
5.	**IGWC-393**	Satendra Kumar	Determination of Soil Hydraulic Properties Using Pedotransfer Functions from Soil Texture Properties in Luni River Basin
6.	**IGWC-392**	Shubham Shaurabh	Evaluating Meteorological and Groundwater Droughts in Bihar State
7.	**IGWC-171**	Reshma Susan Jaco	Evaluation of Spatio-Temporal Variability of Groundwater Quality for Irrigational Suitability and Its Relation with Climatological Parameters in Pondicherry Region

07th March 2025 (Day 3), Time: 02:30 - 04:15 PM
Technical Session: T11 (S3)
Hall Name: Society Room
THEME: APPLICATION OF AI, ML, IOT, CLOUD COMPUTING AND OTHER ADVANCED TECHNIQUES IN GROUNDWATER
Session Chairs: M.L. Gaur & A.R. Senthil Kumar

Sr. No.	Abstract-Id	Author	Title
Keynote		M.L. Gaur	**Attaining Water Security 2047: AI, Nature-Based, and Smarter Hydrology- Driven Hidden Blue Nexus for a Climate-Resilient Future**
1.	IGWC-401	Sushindra Kumar Gupta	Prediction of Groundwater Level Using Machine Learning Techniques of the Western Aravali Range, Rajasthan, India
2.	IGWC-406	Prateek Khanna	Geospatial Intelligence for Groundwater Management
3.	IGWC-455	Ratnakar Swain	Machine Learning-based Groundwater Level Prediction for Sustainable Water Resource Management in an Industrial Catchment
4.	IGWC-463	Prosun Bhattacharya	Participatory GIS Analysis and Mapping of Drinking Water Quality Challenges in Tanzania
5.	IGWC-348	ShyamSundar Bhardwaj	Comparative Evaluation of IMD and NASA Datasets for Hydrological Modelling
6.	IGWC-231	Manita	A Hybrid Approach to Modelling ETo and Groundwater Recharge
7.	IGWC-228	Amit Bera	A Hybrid Approach Using Deep Learning and Hydrological Modelling to Identify Aquifer Stress Zones in the Barakar River Basin, Jharkhand
8.	IGWC-133	Yuvraj Nanasaheb Dhivar	Application of Machine Learning Techniques for the Prediction Depth to Water Table in Nashik District

07th March 2025 (Day 3), Time: 02:30 - 04:15 PM
Technical Session: T12 (S2)
Hall Name: Jal Tarang Auditorium
THEME: VADOSE ZONE HYDROLOGY AND AGRICULTURE WATER MANAGEMENT

Session Chairs: J.V. Tyagi & K.S. Hari Prasad

Sr. No.	Abstract-Id	Author	Title
Keynote		**K.S. Hari Prasad**	**Effect of Salinity on Crop Growth and Root Zone Soil Moisture Dynamics: A Study with Root Water Uptake Model**
1.	**IGWC-377**	Ruchir Patidar	A Multi-Indicator Retrospective Analysis of Groundwater Drought Dynamics in Central India
2.	**IGWC-217**	Pavan Kumar Harode	Evaluation of Impact of Shifting Sowing Date of Rice-Wheat Crops on Groundwater Behavior in Rice-Wheat Plain of North-West India
3.	**IGWC-306**	Mayank Raturi	Estimation of Groundwater Recharge for Shallow Aquifers in Ganga-Yamuna Doab Region using HYDRUS-1D and IWTF Method
4.	**IGWC-437**	Vipul Kumar Rai	Conjunctive use planning of groundwater and surface water to determine optimal cropping pattern
5.	**IGWC-254**	Richa Pandey	Performance Evaluation of Global ET Datasets Using the Google Earth Engine for Groundwater and Water Resources Applications
6.	**IGWC-111**	Venkata Ramamohan Ramachandrula	Gravity Open-Channel Irrigation Systems in Hill Areas: A Field Study In Andhra Pradesh, India
7.	**IGWC-264**	Anushka Chand	Enhancing Water Use Efficiency Through Evapotranspiration Partitioning in Agriculture

07th March 2025 (Day 3), Time: 02:30 - 04:15 PM
Technical Session: T13 (S2)
Hall Name: Sangam Hall
THEME: PROTECTION OF GROUNDWATER DEPENDENT ECOSYSTEMS - RIVERS, WETLANDS, LAKES AND SPRINGS
Session Chairs: R.D. Singh & Dipankar Saha

Sr. No.	Abstract-Id	Author	Title
Keynote		**Dipankar Saha**	**Is supply side interventions can effectively neutralize ground water overexploitation in India.**
1.	IGWC-399	Subhamgi T.B.	Ecosystem Health Assessment of Kol Wetlands, A Ramsar Site: Towards Environmental Sustainability
2.	IGWC-409	Pankaj R. More	Floating Treatment Wetland (FTWS): Innovative Tool for Revival of Kham River in Chhatrapati Sambhajinagar (Aurangabad)
3.	IGWC-414	Ankit Kumar	Rejuvenating Small Water Bodies: A Case for Sustainable Management in Gautam Buddha Nagar, India
4.	IGWC-418	Deepika Sharma	Encroaching Plastic Pollution in Urban Wetlands: A Threat to Groundwater and Ecosystem Health
5.	IGWC-297	Sushamita Wadde	Mapping Spatial and Temporal Dynamics of Lakes of Belagavi Taluk, Karnataka Using Geo Spatial Technology
6.	IGWC-155	Jaideep Purushottam Yadav	Morphometric Comparison of River Basins in Baramati Tehsil Maharashtra, India
7.	IGWC-302	Lakhi Narayan Sahu	Validation of Craig Gordon Model for Evaporation Estimation in the Ganga Yamuna Doab Region
8.	IGWC-426	Gunjan Chauhan	Applicability of Kumaraswamy Distribution to Derive Geomorphological Instantaneous Unit Hydrograph (GIUH)

07th March 2025 (Day 3), Time: 02:30 - 04:15 PM
Technical Session: T14 (S1)
Hall Name: Lecture Room
THEME: ISOTOPIC TECHNIQUES IN GROUNDWATER INVESTIGATIONS AND MANAGEMENT

Session Chairs: Bhishm Kumar & RV Kale

Sr. No.	Abstract-Id	Author	Title
Keynote		**Bhishm Kumar Kumar**	**Isotope hydrology applications in the Asia-pacific region- A few case studies.**
1.	**IGWC-39**	Bharat Moharana	Integrating Hydrogeochemistry and Stable Isotopes to Understand the Groundwater Salinization in a Coastal Aquifers of Odisha
2.	**IGWC-91**	Madhusmita Nanda	Stable Water Isotope is an Indicator of Surface Water and Groundwater Interaction in Shallow Aquifers of the Brahmaputra River System.
3.	**IGWC-175**	Sreelesh R	Unravelling Groundwater Flow Paths and Contributions to Aquifers Employing Natural Tracers and End Member Mixing Analysis in the Southern Western Ghats, India
4.	**IGWC-263**	Vivek Kumar	A δ^2H AND $\delta^{18}O$ Isoscape of Groundwater in the East Khasi Hills District, Meghalaya, India
5.	**IGWC-266**	Sakthivel V	Radon Level Measurements in Groundwater Samples of Doon Valley of Uttarakhand, India
6.	**IGWC-272**	Praveen Kumar	Isotopic Studies of Springs of Lesser Himalayan- A Case Study of Kalsi Region, Uttarakhand, India
7.	**IGWC-363**	Vinay Arya	Isotopic and Hydrochemical Insights into Groundwater Sustainability in the Middle Ganga Basin, India
8.	**IGWC-456**	Amit Pandey	Understanding Surface Water Groundwater Interactions In The Upper Narmada River Basin and Its Hydrological Implications

07th March 2025 (Day 3), Time: 02:30 - 04:15 PM
Technical Session: T14 (S2)
Hall Name: Manthan Hall
THEME: ISOTOPIC TECHNIQUES IN GROUNDWATER INVESTIGATIONS AND MANAGEMENT

Session Chairs: László Palcsu & G.J. Chakrapani

Sr. No.	Abstract-Id	Author	Title
Keynote		**László Palcsu**	**Tracer Age, Mean Residence Time, Age Distribution of Groundwater**
1.	**IGWC-380**	Radha Dixit	Control Of Aquifer Material on Groundwater Mineralization Revealed Through Isotopic and Hydrochemical Proxies in Central Ganga Plain
2.	**IGWC-436**	Nitish Kumar	Hydrological And Isotopic Characterization of Himalayan Springs: Insights from Stable Isotopes, Tritium Analysis, And Seasonal Precipitation in The Takoli Gad Watershed, India
3.	**IGWC-347**	Amit Pandey	Groundwater Age Distribution in The Cambay Basin, India: Insides from Carbon And Oxygen Isotopes
4.	**IGWC-461**	Baljinder Singh	Hydrochemical and isotopic dynamics of (sub)-surface water resources in Chittorgarh, Rajasthan
5.	**IGWC-445**	Akshaya Verma	Isotopic Composition and Variability of Snowpack in the Himalaya (2011–2022)
6.	**IGWC-15**	Rina Kumari	Geochemical and Isotopic Evolution of Groundwater Quality in Semi-Arid/Arid Alluvial Aquifer, Jhajjar District, Haryana, India: An Integrated Approach

Social Program

Cultural Program
The organization committee invites you to the cultural evening arranged in Jal Tarang Auditorium (07:30 PM to 8:30 PM) on Wednesday, 05th March 2025.

Welcome Dinner
A Welcome Dinner has been organised in the Front lawn of NIH (08:30 PM to 10:00 PM) on Wednesday, 05th March 2025 accompanied by light instrumental music to energise the participants after a hectic schedule.

Gala Dinner
The Gala Dinner is arranged at the Hotel Golden Leaf, Haridwar road, Roorkee on Thursday, 06th March 2025. A great variety of Indian cuisines will be served with live music performance make it a memorable and enjoyable evening.

Field Trip
A Field trip on 08th March has been planned to the holy cities of Haridwar and Rishikesh for the interested participants who have made prior-booking.

Useful Information

Weather
The weather of Roorkee is likely to be moderate during the Conference duration with days being little warmer and mornings and evenings being little cooler. The maximum temperature is likely to be around 26° C and minimum temperature is likely to be around 11° C. On an average, there are 4 rainy days during March bringing mild showers. Let's hope that this year they won't occur during the Conference duration.

Insurance
Registration fee does not include insurance of any kind. It is recommended that delegates arrange for appropriate travel and health insurance prior to travelling on their own.

Smoking
Smoking is not permitted inside the NIH campus and even in the adjoining IIT Roorkee campus.

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