

## AWARDS & PUBLICATIONS

The authors are invited to submit their abstract for the conference as per the prescribed format (please refer to registration form for format). The abstracts will be selected for oral or poster by the scientific advisory committee and will be intimated through email. Last date for receiving the abstracts is 30th Dec 2022. Intimation regarding oral/poster presentation will be done on 1st week of Jan 2023. Best oral and poster presentation will be awarded. The selected papers will be considered for publication in Journal of Groundwater Research (JGWR).

## SPONSORSHIP OPPORTUNITY

This conference provides excellent opportunities for industries/companies to gain publicity for showcasing latest products and technologies to a highly focused audience. The networking with the speakers and participants from various sections of industries is an added benefit of this conference. Exhibition of their products in this conference will help the participants to appreciate the state of art technologies in this field. The details of sponsorship are available in the sponsorship form.

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## DST-Science & Engineering Research Board (SERB) sponsored 2<sup>nd</sup> International Conference on EMERGING CONTAMINANTS IN WATER AND ENVIRONMENT (ECWE - 2023)

by  
PSG INSTITUTE OF ADVANCED STUDIES

In Association with  
Association of Global Groundwater Scientists (AGGS)

21<sup>st</sup> & 22<sup>nd</sup>  
FEBRUARY  
2023



Preconference Workshop  
"Techniques for Emerging Contaminants Quantification & Impact Assessment"  
20<sup>th</sup> Feb 2023

Jointly Organized & Supported by





## CONFERENCE THEME

Emerging contaminants (EC) or contaminants of emerging concern are a class of chemicals or microorganisms which are not commonly monitored and are not part of any regulations in environment and water management sector. The major class of EC includes pharmaceuticals and personal care products, fire retardants, pesticides, plasticizers, surfactants, disinfection by-products, microplastics, antibiotic-resistant bacteria and/or genes. These contaminants pose a serious threat to health and environment and are in constant rise which makes it a priority area to be focused without delay. EC in the water sector are of prime concern in the view that the EC intoxicate various ecosystems from groundwater to marine. The concept of occurrence of co-contaminants in the same habitat augments the ecosystem imbalance and health impact. Having very keen eyesight on these ecological threats, the global management of EC needs novel analytical, molecular and modeling techniques to quantify, monitor, mitigate and assess its impact on environmental health.

In view of these consequences, this exclusive conference "Emerging contaminants in water and environment 2023 (ECWE-2023)" will be an excellent platform to update, exchange ideas and create awareness among the researchers, innovators, governmental/non-governmental organizations, policymakers and industries in the field of EC research. This program apart from sharing knowledge from professionals around the world, includes a pre-conference workshop on "Techniques for EC quantification and impact assessment in various water sectors". This exclusive conference will be addressed by international and national scientists from renowned institutions, and technical experts from popular industries of EC sector.

## PRE-CONFERENCE WORKSHOP THEME

The pre-conference workshop will introduce the technological interventions and their advancements in EC quantification, monitoring and management. This workshop covers the application of analytical techniques, nanobiotechnological approaches and mathematic modeling to increase our understanding on the management of EC in the water sector. The workshop will be addressed by experts from international and national institutions & industries.

## TECHNICAL SESSIONS

- EC-Global and Indian scenario.
- Recent EC in environmental sector.
- Advancements in impact assessment methodologies.
- Technological breakthrough and challenges in EC management.
- Analytical methodologies and trouble shooting for EC quantification
- Nano-Biotechnological approaches in EC management and ecotoxicology assessment.
- Simulation and modelling techniques to study the EC kinetics.
- Regulatory aspects of EC.

## LEAD ORGANIZERS

### PSG INSTITUTE OF ADVANCED STUDIES

PSG Institute of Advanced Studies (PSG IAS), an institution under PSG Sons' and Charities is an approved Research Centre under Anna University, Chennai and Bharathiar University, Coimbatore to do research in Mechanical engineering, Nanoscience and Technology, Material Science, Biotechnology, Nanobiotechnology, Physics and Chemistry. Having world-class infrastructures & facilities, PSG IAS has collaborations with various Universities in the US, UK, Germany and Australia for joint research and exchange programs. The institute currently undertakes several sponsored projects from funding agencies like DST, SERB, DBT, DRDO, etc., The institute also supports industrial consultancies, testing and startups for product validation and development.

### ASSOCIATION OF GLOBAL GROUNDWATER SCIENTISTS

The Association of Global Groundwater Scientists (AGGS) alias International Groundwater Congress (IGWC) is an international ngo that aims to instill human resources for the sustainable growth of groundwater and its allied areas through knowledge sharing, logical thinking, and qualitative & quantitative analysis. AGGS is envisaged as a functional network and collaboration of different organizations including govt. depts., IITs, national institutes/ labs, water-related industries NGOs for better sharing, and collaboration on emerging issues in ground water management. Journal of Groundwater Research (JGWR) is an international peer reviewed journal published by AGGS. Apart from this, AGGS has conducted a series of conferences in various parts of India.

## JOINT ORGANIZERS

### PSG INSTITUTE OF TECHNOLOGY & APPLIED RESEARCH

PSG Institute of Technology and Applied Research, the latest initiative of PSG and Sons' Charities is an AICTE-approved institution affiliated to Anna University, Chennai. This institute caters to various engineering disciplines, focusing on learning, industry engagement of students, innovative and inclusive pedagogy, and ethics. PSG i-Tech aims to achieve excellence in education and research and nurture engineers with ethics, who will face global challenges to serve industry and society.

## PSG INSTITUTE OF MEDICAL SCIENCES & RESEARCH

PSG Institute of Medical Science & Research is one of the premier Institutions in PSG Sons & Charities Trust, which remains one of the oldest trust in the country, with over 44 educational institutions under its care. PSG IMSR fulfills integrated medical education, training, development, research and patient care with affiliated PSG Hospitals. PSG centre for Molecular Medicine & Therapeutics (PSG-CMMT) research centre was initially established in 2009 under PSG IMSR. It fosters to inter-disciplinary approach to biological research, from bench to clinical research.

## REGISTRATION DETAILS

Participant	Registration fee (INR) (Incl 18% GST)			
	Before 20 <sup>th</sup> Jan 2023 (C+W)*	After 20 <sup>th</sup> Jan 2023 (C+W)*	Before 20 <sup>th</sup> Jan 2023 (C only)	After 20 <sup>th</sup> Jan 2023 (C only)
Faculty / Scientist	2950	3540	2360	2950
Students / Research Scholars	2360	2950	1770	2360
Industry	5310	6490	4130	5310
Innovators / Startups	2950	3540	2360	2950
Accompanying Persons	2360	2950	1770	2360
Spot registration	3500 for Academic/6000 for industry (Conference only - 2 days)			

\* C-CONFERENCE, W-WORKSHOP

Registration fee includes registration kit and working lunch- Number of participants for workshop is restricted to 50 on first come first serve basis. Registration fee covers admission to all presentations, conference lunch, refreshments and conference proceedings (ISBN number). Filled in registration form should be submitted along with registration fee. UPI transactions/Demand draft should be drawn in favor of PSG Institute of Advanced Studies payable at Coimbatore. Account Details:

**Account Name: PSG Institute of Advanced Studies**

**Account Number: 1481412317**

**Bank: Central bank of India, Peelamedu Branch**

**IFSC code: CBIN0280913**

Registration and abstract submission can be made online at Google link