



INTERNATIONAL CONFERENCE ON EMERGING CONTAMINANTS IN AQUATIC, TERRESTRIAL AND FOOD ECOSYSTEM (ICECATFE-2026)

Host By

**Department of Aquatic Environment Management
Fisheries College and Research Institute, Thoothukudi**

**In Collaboration with
Nivetha Institute of Earth and Environmental Sciences-
NIEES, Kovilpatti**



**22& 23
January 2026**



09.00 AM



**Fisheries College and Research
Institute, Thoothukudi- 628 008.**



BACKGROUND

Emerging contaminants are substances increasingly found in our environment and food, raising concerns for ecosystem health and human well-being. These include pharmaceuticals, personal care products, pesticides, microplastics, flame retardants, industrial chemicals, and other synthetic compounds. Unlike traditional pollutants, many of these substances persist in the environment, are largely unregulated, and can accumulate in living organisms, making them a growing challenge for scientists, policymakers, and public health experts. Aquatic ecosystems are particularly vulnerable. Rivers, lakes, and oceans receive contaminants through industrial discharges, sewage, agricultural runoff, and aquaculture. These substances can accumulate in fish and other aquatic organisms, disrupt biological processes, and alter ecological balance. Similarly, terrestrial ecosystems, including farmlands, forests, and urban areas, are impacted by chemical residues, atmospheric deposition, and wastewater irrigation. Soil health, plants, and terrestrial animals—including livestock, wildlife, and pollinators—can be affected, creating pathways for contaminants to enter the food chain. The contamination of food systems is a growing concern. Pollutants in crops, seafood, meat, dairy, and water can lead to endocrine disruption, oxidative stress, and antimicrobial resistance, posing risks to nutrition and human health. Understanding how contaminants move from the environment, through plants and animals, into our food is essential for assessing exposure and developing effective solutions. Integrated monitoring, sustainable practices, and strong policies are vital to reduce pollution, protect ecosystems, ensure safe food, and safeguard human health.

ABOUT FC & RI, THOOTHUKUDI

The Fisheries College and Research Institute (FC&RI), Thoothukudi, was established in October 1977 by the Tamil Nadu Agricultural University as India's second fisheries college and came under TANUVAS in 1989. Renamed in 1990 to emphasize research and extension, FC&RI operates four campuses, including the Mariculture Research Farm at Tharuvaikulam. Guided by the motto "Educate, Innovate, Elevate," its vision is to harness fisheries science for food, nutrition, and livelihood. Its mission is to achieve excellence in fisheries education and develop skilled human resources. The institute focuses on training professionals through B.F.Sc., M.F.Sc., Ph.D., and other programs, conducting research for fisheries advancement, and disseminating innovations through extension activities.

ABOUT NIEES

Nivetha Institute of Earth and Environmental Sciences (NIEES), located in Kovilpatti, Tamil Nadu, is an emerging center of excellence committed to advancing research, education, and outreach in the fields of Earth and environmental sciences. Established with a vision to foster sustainable development and environmental stewardship, the institute brings together multidisciplinary expertise to address the most pressing ecological and geoscientific challenges facing society today. NIEES collaborates with universities, Institutes, research organizations, NGOs, and government bodies in India and abroad to advance research, technology transfer, and policy development. It actively supports young researchers and students through internships and capacity-building initiatives.

ABOUT THE CONFERENCE

The International Conference on Emerging Contaminants in Aquatic, Terrestrial, and Food Ecosystems brings together scientists, policymakers, industry experts, and entrepreneurs to tackle the growing challenges posed by emerging pollutants. These include pharmaceuticals, personal care products, pesticides, microplastics, and industrial chemicals that are increasingly found in water, soil, and food, affecting ecosystems, food safety, and human health. The conference provides a platform to share the latest research, explore innovative monitoring and cleanup technologies, and discuss sustainable practices in agriculture and aquaculture. Participants will also examine policies and regulations needed to manage and reduce the impact of these contaminants. By encouraging collaboration and knowledge exchange, the event aims to develop practical solutions for cleaner environments and safer food systems. It offers a unique opportunity to network, share experiences, and build partnerships that support sustainable practices, protect ecosystems, and ensure healthier communities worldwide.

OBJECTIVES

- To share and discuss the latest research on emerging contaminants, their sources, fate, behavior, and impacts on aquatic, terrestrial, and food ecosystems.
- To explore and highlight innovative technologies and practices for monitoring, detection, remediation, and sustainable management of contaminants.
- To provide a platform for dialogue on policy frameworks, regulations, and governance strategies to effectively control and mitigate emerging contaminants.
- To bring together researchers, industry experts, policymakers, and entrepreneurs to build partnerships and promote cross-sector collaboration in addressing contaminant challenges.
- To assess the impact of emerging contaminants on food systems and human health and develop actionable strategies for safe, resilient, and sustainable ecosystems and food supply chains.

CONFERENCE THEMES

- Fate, Transport, and Impact of Emerging Pollutants in Aquatic and Terrestrial Ecosystems
- Transfer of Environmental Contaminants Through Food Chains and Human Exposure Risks
- Emerging Pollutants and Their Implications for Food Safety and Nutritional Security
- Innovations and Technologies for Detection, Monitoring, and Remediation of Pollutants
- Policy, Governance, and Regulatory Frameworks for Emerging Contaminant Management
- Sustainable Entrepreneurship and Green Innovations in Pollution Mitigation
- Economic and Social Dimensions of Environmental Contamination and Food Safety
- Circular Economy Approaches for Waste Reduction and Resource Recovery
- Climate Change Interactions with Emerging Contaminants and Ecosystem Health

ABSTRACT SUBMISSION GUIDELINES

- **Language:** English
- **Word Limit:** 250-300 words
- **Font:** Times New Roman, Size 12, Line spacing 1.5
- **Title:** Concise and reflective of the content
- **Authors & Affiliations:** Include full names, institution and corresponding email with Presenting author in bold
- **Content:** No graph, tables or references in the abstract
- **Format:** MS word

ABSTRACT SUBMISSION OPEN: NOVEMBER 26, 2025

DEADLINE OF ABSTRACT SUBMISSION: JANUARY 7, 2026

ABSTRACT ACCEPTANCE: JANUARY 9, 2026

EARLY BIRD REGISTRATION: JANUARY 7, 2026

ON SPOT REGISTRATION: JANUARY 22, 2026

We invite researchers, scientists, and students from all disciplines to submit their original contributions. Share your insights, spark new ideas, and be part of a collaborative effort to advance knowledge in environmental sustainability, pollution mitigation, and emerging contaminant research

ACCOMODATION

Participants are advised to make their own arrangements for stay and the requisite information on hotels near the venue will be provided by the organizing committee.

ORGANIZING COMMITTEE

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Vice Chancellor

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Dr. Umesh Chandra Dumak, ARIES, Nainital.

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Dr. Fengjie Li, Northwest Normal University, China.

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Dr. Jothilingam R, King Saud University, Saudi Arabia.

Dr. Wang Meimei, Florida International University, USA.

FEE DETAILS

ACCOUNT NAME : M/S ICECATFE 2026

ACCOUNT NUMBER : 643002010024295

BANK : UNION BANK OF INDIA

IFSC CODE : UBIN0564303

BRANCH : GANESH NAGAR, TUTICORIN

(All the participants must submit their fee-paid receipt or screenshot along with registration form)

CATEGORY	EARLY BIRD FEE (IN RUPEES)	EARLY BIRD FEE FOR ABROAD (USD)	ON SPOT FEE (IN RUPEES)
Participants (All)	1000	50 USD	1500
Bachelor/ Masters	1000	50 USD	1500
Research Scholar	1500	100 USD	2000
Faculty/ Scientists	2500	200 USD	3000
Industry/ Company	3000	200 USD	3500

REGISTRATION LINK:

<https://forms.gle/CYGSJLsXuo8L1hbbA>



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