2nd DAE–BRNS Conference
on

Advances in Water Chemistry, Biofilms, Biofouling and Corrosion Control (AWC-BBC 2026)

Organised by

Water & Steam Chemistry Division, Chemistry Group, Bhabha Atomic Research Centre

In association with

Society for Biofilms, Microbiome and Water Research (SBMR)

Sponsored by

Board of Research in Nuclear Sciences (BRNS)

16–19 DECEMBER 2026 | Convention Centre, Anupuram, Kalpakkam, Tamil Nadu

AWC-BBC 2026

The 2nd DAE-BRNS Conference on "Advances in Water Chemistry, Biofilms, Biofouling and Corrosion Control (AWC-BBC 2026)", organized by the Water & Steam Chemistry Division, Bhabha Atomic Research Centre (BARC) and sponsored by the Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, will be held during December 16–19, 2026, at Anupuram Township, Kalpakkam, Tamil Nadu. The scientific programme will feature invited talks, contributed oral presentations, poster presentations, and parallel technical sessions spanning the diverse AWC and BBC themes, offering a dynamic platform for knowledge exchange, collaboration, and professional networking.

Important Dates

Abstract submission opens	01 Aug 2026
Last date for abstract submission	30 Oct 2026
Abstract acceptance notification	10 Nov 2026
Deadline for registration	20 Nov 2026

Accommodation

Accommodation will be available at DAE Guest Houses/Hostels in Anupuram and Kalpakkam at nominal charges on a first-come, first-served basis. Participants may also choose hotels in Mamallapuram, just 10 km from the venue, at their own expense, with transportation to the venue to be arranged by participants.

How To Reach ?

Chennai Airport: ~65 km

Chennai Central: ~70 km

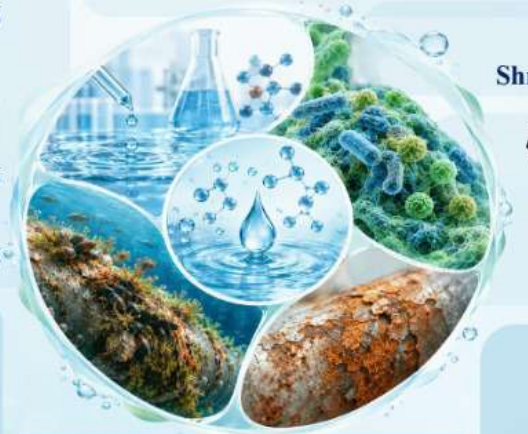
Via ECR: Chennai–Kalpakkam–Anupuram

(Mamallapuram: ~10 km from venue)

Bus & cab services available.

Scientific Topics Covered

- Biofouling in industrial cooling water systems
- Microbiologically influenced corrosion
- Biocides, antifouling coatings, and cooling water treatment
- Medical biofilms and antimicrobial resistance
- Marine biofilms and marine biotechnology
- Bioremediation and effluent treatment
- Biological wastewater treatment
- Aerobic granular sludge and algal-bacterial granules
- Biotechnologies for critical metals & circular bioeconomy
- Water chemistry of power plants (NPPs)
- Operational experiences and chemical decontamination
- Corrosion and its control in industrial cooling water systems
- Flow-accelerated corrosion and its mitigation strategies
- Electrochemistry /radiation chemistry related to NPPs
- Chemical methods for separation and recovery of radionuclides
- Radioactive waste volume reduction
- Reactor water radiolysis
- Future trends in water chemistry



For abstract submission and registration, please refer to Website: www.awc-bbc.in

Patron

Shri. Vivek Bhasin, Director, BARC

Organising Committee

- A. C. Bhasikuttan, Chairman
- Y. V. Nancharaiah, Convener
- Puspalata Rajesh, Secretary
- Abdul Nishad, Treasurer

Registration Fee*

Faculty (Indian)	Rs.5000/-
PhD/ RA/ UG / PG	Rs.3000/-
Industry Personnel	Rs.7000/-
International Delegates	USD300

*Registration fee covers abstract book soft copy, conference kit and refreshments (tea, coffee and meals) during the meeting.

Registration Fee Payment

Bank Details

Beneficiary name	BBC-2024
Account no.	43227808375
IFSC	SBIN0002219
BIC/ SWIFT Code	SBININBB298
Bank Name	State Bank of India
Branch & Code	Kalpakkam & 002219

Address For Correspondence

Convener, AWC-BBC 2026,
WSCD, CG, BARC, Kalpakkam 603102,
Tamil Nadu, India.
Tel: +91 44 27480500 extn. 23342
Email: awcbbc@gmail.com, yvn@igcar.gov.in

Water Chemistry | Biofilms | Biofouling | Corrosion | Innovation

2nd DAE-BRNS Conference

on

Advances in Water Chemistry, Biofilms, Biofouling and Corrosion Control (AWC-BBC 2026)

December 16-19, 2026

Venue

Convention Centre, Anupuram, Kalpakkam, Tamil Nadu, India

Organised by

Water & Steam Chemistry Division
Bhabha Atomic Research Centre

In association with

Society for Biofilms, Microbiome and Water Research

Sponsored By

Board of Research in Nuclear Sciences (BRNS)

Department of Atomic Energy, India

AWC-BBC 2026

The 2nd DAE-BRNS Conference on "Advances in Water Chemistry, Biofilms, Biofouling and Corrosion Control (AWC-BBC 2026)", organised by Water & Steam Chemistry Division, Bhabha Atomic Research Centre (BARC) and sponsored by Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, will be held in Anupuram Township, Kalpakkam, Tamil Nadu, during December 16-19, 2026. The aim of this conference is to bring together scientists and industry professionals to deliberate on the latest innovations in the field of reactor water chemistry, decontamination and waste management, cooling water treatment, biofilms, bioremediation and biofouling control. AWC-BBC 2026 is envisioned to provide a unique platform to faculty, industry professionals and students to share recent advances in reactor water chemistry, cooling water treatment, corrosion control, biofouling control, biofilms and biofilm-biotechnologies for meeting Sustainable Development Goals.

The symposium organising committee invites participation of scientists, senior researchers, research scholars and industry professionals engaged in basic and applied research across the field of reactor water chemistry, decontamination, waste management, biofilms and biofouling to witness insightful developments and networking opportunities. The scientific program will include invited talks, oral presentations of contributed papers and poster presentations. The conference will have parallel sessions dedicated to varied topics under AWC and BBC themes.

SCIENTIFIC TOPICS COVERED

- Biofouling in power plant cooling water systems
- Microbiologically influenced corrosion of materials
- Biocides, antifouling coatings, and cooling water treatment
- Medical biofilms and emerging control strategies
- Marine biofilms, biofouling and marine biotechnology
- Natural antifouling and bioprospecting
- Bioremediation and industrial effluent treatment
- Biological wastewater treatment and biofilm-metal interactions
- Aerobic granular sludge and algal-bacterial granules
- Biotechnologies for strategic, critical metal recovery, resource recovery, circular bioeconomy
- Water chemistry of nuclear power plants (NPPs)
- Operational experiences and chemical decontamination in NPPs
- Corrosion and its control in industrial cooling water systems
- Flow-accelerated corrosion and its mitigation strategies
- Electrochemistry /radiation chemistry related to NPPs
- Chemical methods for separation and recovery of radionuclides
- Radioactive waste volume reduction and management
- Reactor water radiolysis
- Future trends in water chemistry

PREPARATION OF ABSTRACT

A book of abstracts featuring invited talks and contributory papers will be provided to the participants. All the invited speakers and authors should submit their abstracts via the conference website using the provided template. Information about special journal issues for full-length papers will be notified on the website.

Website: www.awc-bbc.in

IMPORTANT DATES

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Deadline for registration	20 Nov 2026
Conference dates	16-19 Dec 2026

ORGANISERS

WATER & STEAM CHEMISTRY DIVISION, BHABHA ATOMIC RESEARCH CENTRE

The Bhabha Atomic Research Centre is a premier multi-disciplinary nuclear research institution under Department of Atomic Energy (DAE), India furthering energy, food and water security. Water & Steam Chemistry Division, Chemistry Group is a multi-disciplinary division supporting nuclear power programme by undertaking R&D in the fields of chemistry and biology in connection with the primary heat transport system, as well as the secondary and tertiary cooling water systems of nuclear power plants. The major R&D activities include water chemistry, chemical decontamination, special sorbents for waste management, corrosion, cooling water treatment, biofilms, biofouling control and biofilm-based biotechnologies for environmental protection. Major field-deployment outcomes from the division include decontamination campaigns and biofouling mitigation formulations for trouble-free operation of power plants.

SOCIETY FOR BIOFILMS, MICROBIOME AND WATER RESEARCH

The conference is organized in association with Society for Biofilms, Microbiome and Water Research [SBMR] instituted at WSCD, BARC, Kalpakkam and registered in 2025. The objectives of the society are to promote biofilms, microbiome and water research, foster interactions between academia and industry, develop research community database working on power plant chemistry and biology within the country, contribute to improving healthcare, environmental protection and sustainability, and disseminate knowledge through impactful conferences, workshops, lectures and related outreach programs.

TENTATIVE SCHEDULE

Day	AWC	BBC
Day 1 (16 Dec 2026)	Reactor water chemistry of NPPs	Biofilm biology, Biofilm-material interactions & Control Strategies
Day 2 (17 Dec 2026)	Chemical decontamination & Radioactive waste management	Marine biofilms, Power plant biofouling and Marine Biotechnology
Day 3 (18 Dec 2026)	Corrosion Control & Cooling water treatment	Biofilms-biotechnologies for effluents & wastewater treatment; Biofilm-radionuclide interactions
Day 4 (19 Dec 2026)	Future trends in water chemistry	Microbiologically influenced corrosion and its control

BRNS

The Board of Research in Nuclear sciences (BRNS), Department of Atomic Energy (DAE), a nodal funding agency supports extramural research and development activities in nuclear and allied sciences, engineering and technology. Major activities of BRNS are: Identify and fund R & D programs and projects, award fellowship to pursue doctoral programs and research grants to young scientists, organize symposia on topic of relevance and interest to DAE as well as in frontier areas of science and technology, extend financial support to symposia and conferences organized by professional bodies and other agencies. For more information visit the BRNS website https://brns.res.in/.

ACCOMMODATION

Accommodation will be arranged in DAE Guest Houses/Hostels near venue at Anupuram and Kalpakkam at nominal charges, on a first-come, first-served basis. Participants can also book hotels in Mamallapuram, 10 km from the venue, at their own expense. Participants staying in Mamallapuram will need to arrange their own transportation to the venue.

PATRONS

Shri. Vivek Bhasin, Director, BARC

ADVISORY COMMITTEE

- U. Kamachi Mudali, HBNI
- A.K. Tyagi, HBNI
- Sreekumar G Pillai, IGCAR
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- K. Sriram, NPCIL, Mumbai
- Vidya S, IGCAR, Kalpakkam
- Rajesh Ganesan, IGCAR, Kalpakkam
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- M.M. Ghangrekar, NIT Puducherry
- S. Venkata Mohan, NEERI
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- G. Dharani, NIOT, Chennai
- Kothandaraman R, IIT Madras
- C.V.S.B. Rao, IGCAR, Kalpakkam

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- A.C. Bhasikuttan (Chairman)
- T.V. Krishna Mohan (Co-chairman)
- Y.V. Nancharaiah (Convener)
- R. Puspalata (Secretary)
- Abdul Nishad P (Treasurer)
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- Veena Subramanian
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- P. Chandramohan
- Hiren Joshi
- P.S. Murthy
- S.K. Shukla
- Y. Raghavendra
- G. Kiran Kumar Reddy
- Sumathi Suresh
- A. Padmavathi

REGISTRATION FEE PAYMENT

Registration fees can be paid via electronic money transfer using the bank details provided below. The registration form should include your transaction details.

REGISTRATION FEE*	
Faculty (Indian)	Rs.5000/-
PhD/ RA/ UG / PG	Rs.3000/-
Industry Personnel	Rs.7000/-
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Branch & Code	Kalpakkam & 002219

ADDRESS FOR CORRESPONDENCE

Dr. Y.V. Nancharaiah, Convener, AWC-BBC 2026,
WSCD, CG, BARC, Kalpakkam 603102, Tamil Nadu, India.
Tel: +91 44 27480500 extn. 23342 Email: awcbbc@gmail.com, yvn@igcar.gov.in

Scan for venue

CONNECTIVITY

Anupuram Township is connected to Chennai through scenic East Coast Road (ECR). The distance is about 65 km from Chennai airport and 70 km from Chennai Central Railway Station. Participants can choose to travel either by bus or cab to reach the conference venue.

TOURIST PLACES

Mahabalipuram, also known as Mamallapuram, is a historical coastal town in Tamil Nadu, India. It is renowned for its stunning rock-cut temples and sculptures dating back to the 7th and 8th centuries, created during the Pallava dynasty. The town is a home to the UNESCO World Heritage Site, the Group of Monuments, which includes the famous Shore Temple, Pancha Rathas (Five Chariots), and the Descent of the Ganges, a magnificent bas-relief.