

PATRONS

Dr. Anil Kakodkar
Former Chairman, DAE
and Member, AEC

Shri Vivek Bhasin
Director, BARC

Shri B.C. Pathak
CMD, NPCIL

Dr. V. Kain
Former Director,
Materials Group, BARC

INTERNATIONAL ADVISORY BOARD

Yosuke Katsumura Japan
Tsung-Kuang Yeh Taiwan
Xinqiang Wu China
Qunjia Peng China

Changheui Jang Korea
Hidekazu Usui Japan
Meng-Jen Chen Taiwan
Ji Hyun Kim Korea

Ki-Ho Chun Korea
En-Hou Han China
R. Tewari India

NATIONAL ADVISORY COMMITTEE

Shri Vivek Bhasin Director, Nuclear Fuels Group, BARC
Dr Awadhesh Kumar Associate Director, Chemistry Group, BARC
Shri Joe Mohan Associate Director, Reactor Projects Group, BARC

Shri C. G. Karadkar Director, Reactor Group, BARC
Shri N. Rama Mohan Executive Director, Engineering-LWR, NPCIL
Shri V.K. Sharma Director (O), NPCIL

Dr. K. Hari Krishna Station Chemist, MAPS 1&2, NPCIL
Prof. U.K. Mudali Vice-Chancellor, Homi Bhabha National Institute
Prof. V. S. Raja IIT Bombay, Mumbai

ORGANIZING COMMITTEE

Dr. R. Tewari BARC Chairman
Shri H.L. Kalsi NPCIL Co-Chairman
Dr. T.V. Krishna Mohan BARC Co-Chairman

Dr. Supratik Roychowdhury BARC Convener
Dr. H. Subramanian BARC Co-Convener

Dr. M. Kiran Kumar BARC Secretary
Dr. Sai Karthik Nouduru BARC Treasurer
Dr. K.K. Yadav BARC Joint Treasurer

Dr. Parag Ahmedabadi, BARC
Dr. Kamlesh Chandra, BARC
Dr. Arijit Laik, BARC
Dr. Abhishek Mukherjee, BARC
Dr. Jyoti Prakash, BARC
Dr. (Smt) Poulami Chakraborty, BARC
Shri. Syed Rajak, BARC
Shri. Mohammad Yunus, BARC

Dr. Geogy Abraham, BARC
Dr. Prafful Kumar Sinha, BARC
Dr. Bhaskar Paul, BARC
Dr. Vivekanand Dubey, BARC
Dr. S.R.C.M. Tammana, BARC
Shri. Sanjay Saini, BARC
Shri. Gumma Saradhi, BARC
Shri. Voona Srikanth, BARC



CONTACT

Dr. Supratik Roychowdhury

Convener, AWC 2024
Head, Corrosion Engineering
Section, MP&CED, BARC, Mumbai,
India
Ph no. +91-22 2559 3456
Email: convener@awc2024.com

Dr. M. Kiran Kumar

Secretary, AWC 2024
Corrosion Engineering Section,
MP&CED, BARC, Mumbai, India
Ph no. +91-22 2559 6688
Email: secretary@awc2024.com

Publication

An abstract book will be published and will also contain advertisements. Advertisements are invited as per the tariff given below:

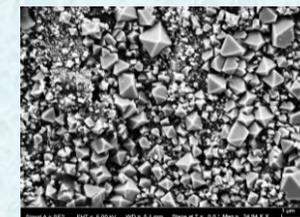
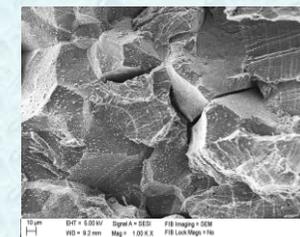
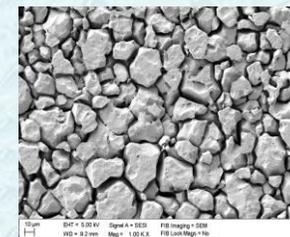
- Full page outside back cover (Colour) - ₹ 30000
- Full page inside back cover (Colour) - ₹ 20000
- Full page inside front cover (Colour) - ₹ 20000
- Full page inside (Colour) - ₹ 10000
- Full page inside (B&W) - ₹ 7000



AWC 2024

**Symposium on Water Chemistry and Corrosion
in Nuclear Power Plants in Asia, 2024**
(www.awc2024.com)

November 30 – December 02, 2024
**DAE Convention Centre, Anushaktinagar,
Mumbai, India**



Organized by

**Materials Group, Bhabha Atomic Research Centre,
Mumbai
&
Nuclear Power Corporation of India Limited (NPCIL)**

In association with



The Indian Institute of Metals, Mumbai Chapter

ABOUT THE SYMPOSIUM

Water chemistry affects material-water interactions in nuclear reactors and its control helps in mitigating corrosion, radiation build-up and maintaining fuel clad integrity in the primary circuit. Water chemistry control is not only important in power reactors and is also of importance in research reactors. Future supercritical water nuclear reactors would have more aggressive conditions and corrosion due to material-water interactions which is the primary challenge in its design.

Water chemistry control in the secondary circuit of nuclear reactors is of prime importance in mitigating flow accelerated corrosion of carbon steel pipelines. Generic corrosion problems such as stress-corrosion cracking in austenitic stainless steels and high nickel containing alloys in boiling water reactors has been alleviated by effective water chemistry control.

The symposium focuses on the operating experiences in different types of nuclear reactors, water chemistry issues in both the primary and the secondary circuit, ageing management, corrosion issues, decontamination and decommissioning of nuclear reactors and water chemistry during accident conditions of a nuclear reactor. This symposium is a forum where the knowledge gained through the operating experiences of the nuclear power plants is shared and the new developments in this field are brought out.

ABOUT THE ORGANIZERS

The Materials Group of Bhabha Atomic Research Centre (BARC) is actively involved in the research and development of various materials for various applications to cater the nuclear energy requirement of India. Corrosion of nuclear materials in simulated nuclear reactor water chemistry is a major activity in Materials Group for the past several decades.

Nuclear Power Corporation of India Limited (NPCIL) operate different commercial nuclear power reactors across India, such as PHWR (220 MWe and 700 MWe), PWR (1000 MWe VVER) and BWR and water chemistry control is a major focus area of NPCIL.

The Indian Institute of Metals is a professional body and its activities include organizing national and international technical conferences and programs, scientific publications etc.

WHO SHOULD ATTEND

Engineers and researchers from operating NPPs, chemistry management personnel in NPPs, research institute, universities, research scholars working on material-water interaction/water chemistry aspects relevant to operating NPPs/future supercritical water reactor/SMRs.

TOPICS COVERED

- **Operating experience of NPPs** (BWR, PWR, PHWR, Research reactors, SMR, new reactors)
- **Primary water chemistry** (BWR, PWR, PHWR, Research Reactors, SMR, new reactors)
- **Secondary water chemistry** (PWR, PHWR, Research Reactors, SMR, new reactors)
- **Water chemistry effects on corrosion in NPPs**
- **Material – water interactions under normal operating conditions of NPP**
- **Material – water interactions under simulated accident conditions of NPP**
- **Material – water interactions for future supercritical water reactors**
- **Water chemistry effects on radiation field**
- **Flow accelerated corrosion and water chemistry effects**
- **Water chemistry effects in auxiliary system**
- **Decontamination in NPPs**
- **Modelling and simulation of water chemistry, corrosion potential and their effects on corrosion**

REGISTRATION

Category	Registration Fee
1 Foreign Delegate	300 USD
2 Accompanying person (Foreign)	150 USD
3 Student delegate (Foreign)	150 USD
4 Indian delegate (DAE, Academic and Research institutes)	₹ 6,000
5 Accompanying person (Indian)	₹ 3,000
6 Student delegate (Indian)	₹ 3,000
7 Industry	₹ 10,000



Venue: DAE Convention Centre, Anushaktinagar, Mumbai

BANK DETAILS

Account Name:	AWC 2024
Bank Name:	State Bank of India
Account Type:	Current
Account Number:	42826524435
IFSC:	SBIN0001268
MICR:	400002006
SWIFT Code:	SBININBB508

CALL FOR PAPERS / IMPORTANT DATES

Registration starts	June 01, 2024
Registration ends	October 15, 2024
Abstract submission starts (Refer to www.awc2024.com for guidelines)	June 01, 2024
Abstract submission ends	August 14, 2024
Acceptance of Abstracts	August 31, 2024
Full paper/extended abstract submission	August 31 to September 30, 2024

ACCOMMODATION

Room Category	Single occupancy per night (Approx.)	Double occupancy per night (Approx.)
Fern Residency, Chembur, Mumbai Winter Green Room	₹ 7750 + 18% Taxes	₹ 8250 + 18% Taxes
Four Points, Vashi, Navi Mumbai Deluxe	₹ 9000 + 18% Taxes	₹ 10000 + 18% Taxes
DAE Convention Center, Anushaktinagar	₹ 400 – 1000 for Indian delegates from DAE, Academic and Research institutes	₹ 4000 – 6000 foreign delegates, industry

BARC Guest House and NPCIL guest house Anushaktinagar, (Limited Availability)

- The tariff plan (concessional for AWC 2024) for selected hotel is provided as guideline.
- Hotels can be booked directly by delegates citing the conference name at the time of booking to get concessional rates.
- Enquiry regarding accommodation: accommodation@awc2024.com.