

**First Circular and Call for Papers**

**Symposium on Coolant Chemistry, Corrosion  
and Materials Reliability in Nuclear Power  
plants in Asia - 2026 (ACC 2026)**

**Venue: Shenyang 110016, P.R. China**

**Date: 13-15th October 2026**



**Organized by**

Institute of Metal Research (IMR), Chinese Academy of Sciences (CAS)

**Sponsored by**

Chinese Academy of Sciences (CAS)

National Natural Sciences Foundation of China (NSFC)

Key Laboratory of Nuclear Materials and Safety Assessment, IMR, CAS

CNNC - CAS Joint Key Laboratory for Nuclear Materials and Safety Assessment

Liaoning Key Laboratory for Safety and Assessment Technique of Nuclear Materials

## About the Symposium

Symposium on Coolant Chemistry, Corrosion and Materials Reliability in Nuclear Power plants in Asia-2026 organized by IMR, CAS is scheduled to be held on 13-15th October 2026 in Shenyang, P.R. China. The symposium is held every two years alternately in Japan, Korea, China, India, and Taiwan. The objectives of the symposium are to exchange technical information, operational experiences and latest research findings among engineers and researchers of utilities, vendors, research institutes and universities and to enhance the international cooperation in the fields of reactor chemistry, corrosion and materials reliability in nuclear power plants (NPPs) as well as to promote research and development of nuclear materials, safety assessment and corrosion damage mitigation techniques to ensure the safety and reliability of NPPs. We are looking forward to seeing you in Shenyang in October 2026.

## Topics

- **SMR or micro reactors and advanced reactors**
  - Material design, property and service performance in SMR, LFR, MSR, SFR and GFR coolant environments, *etc.*
- **Operational experiences in water reactor NPPs**
  - Chemistry and corrosion of PWRs, BWRs, PWHRs, ABWR, *etc.*
- **Materials and reliability in water reactor NPPs**
  - Material problems of key components, materials degradation in key components, mitigation and prevention of materials degradation, assessment of life, safety and reliability of key components, *etc.*
- **Coolant chemistry and fuel performance**
  - Coolant chemistry modifications, corrosion release rate, fuel performance, crud related fuel performance, chemistry issues related to plant aging, high burn-up, longer cycle operation and power uprating, *etc.*
- **Radiation reduction and decontamination**
  - Radiation field reduction, dose rate control, chemical decontamination and cleaning, decontamination and cleaning, coolant purification, monitoring systems, *etc.*
- **Waste management, storage and others**
  - Waste reduction and treatment technologies, environmental issues, *etc.*
- **Simulating and monitoring technologies**
  - On-line coolant chemistry controlling techniques, instrumentation and monitoring techniques, in-situ measurement and analysis technologies, advanced analytical techniques, corrosion or coolant chemistry related measuring device and simulating equipments, *etc.*

- **Fundamental studies and future technologies**
  - Corrosion thermodynamics and kinetics, coolant radiolysis, impact of coolant additives, theoretical modeling, chemistry of super-critical water, fast reactors, high-temperature reactor, molten salt reactor, ADS, *etc.*

### Working Language

English is the working language. Presentations both in oral and poster sessions will be given in English.

### Key Dates

- Abstract submission deadline: March 31, 2026
- Author notification & preliminary Program: May 30, 2026
- Full manuscript submission deadline: June 30, 2026
- Early-bird registration deadline: June 30, 2026
- Regular registration deadline: August 31, 2026

### Submission of Abstract

Participants who are willing to contribute papers to the symposium in either oral or poster form are advised to send an English abstract (300 words max.) to the website by March 31, 2026. Please specify your presentation preference (oral presentation or poster) at the end of the abstract to arrange the preliminary program.

To: Symposium Program Committee E-mail: zyzhang14b@imr.ac.cn or  
snow@imr.ac.cn or  
jbtan10s@imr.ac.cn or  
xqw@imr.ac.cn

### Submission of Full Manuscript

Deadline for submission of full manuscripts or presentation materials is June 30, 2026. Your manuscript is requested to be submitted to the website by the date. Please use specific template for the draft paper. You can download the template on the website. A full manuscript is recommended for all the oral and poster presentations. Confirmation e-mail will be sent within one week after your submission.

### Registration

Symposium registration will be accepted on a registration page of the website of AWC 2026 that will be opened on April 1, 2026. Deadline of the early registration will be June 30, 2026. Details will be announced soon on the website and 2<sup>nd</sup> circular.

## Registration Fee

- Early-bird registration for AWC 2026: ¥2,500 RMB
- Late registration for AWC 2026: ¥3,000 RMB
- Students for AWC 2026: ¥1,500 RMB

Registration fee includes participation in all technical sessions, a welcome reception dinner and a banquet.

## Local Organizing Committee in China

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