

## About ICRESH

Over the last few years, extensive development work, in the area of Reliability Engineering in general and Probabilistic Risk Assessment in particular, has been performed as part of risk-informed applications. However, there is a need to take the level of knowledge to risk-based applications in support of asset management for complex systems like nuclear plants, space, aviation systems and process industries. The objective of this conference is to provide a forum for technical discussions on recent developments in the area of advances in risk and reliability modelling and assessment. The conference invites research and technical papers of high quality, bringing out the original contributions, for publication in the conference proceedings. As usual, it is proposed to publish a book containing the papers to be presented in the conference.

Bhabha Atomic Research Centre, Mumbai, along with the Society for Reliability & Safety are jointly organizing the Fifth International Conference on Reliability Safety and Hazard (ICRESH-2024) during 21-24 February 2024, at DAE Convention Centre, Mumbai. The earlier two conferences (ICRESH-2005 & 2010) were also held in Mumbai; the third conference was held at Lulea Technological University, Lulea, Sweden in year 2015 and in 2019 the fourth conference was held at IIT Madras, Chennai. These conferences were attended by Indian experts from many reputed labs and universities, around 20 delegates from several countries like USA, UK, Germany, Russia, Netherlands, South Korea, etc. also participated. Overall, about 130 papers, 30 invited talks and key note addresses marked the proceedings of the conference. One of the key parameters of the conference is that the book of conference proceedings was provided to participants in



ICRESH-2005, Mumbai

advance. In year 2010 it was jointly published with IEEE Reliability Society. Some of the selected papers are published in the International journal of Life Cycle Reliability Engineering, a reputed journal of SRESA and Springer.

## Conference Topics



ICRESH-2010, Mumbai

Reliability Prediction, Risk Based Design, Software reliability, PoF Models, Passive System Reliability, Investigation of Safety Critical Issues, Probabilistic Safety Assessment, Dynamic PRA, Risk-Informed Approach, Dynamic Models for Reliability Analysis, Stress Analysis in Support of Failure Prediction, Reliability Based Design and Evaluation, Reliability Centered Maintenance, Prognostics & Health Management, Precursor Event Analysis, Severe Accident Management, Heat Transfer and Thermal Management in Electronic System, Accelerated Life Testing, Remaining life Prediction in Support of Ageing Management, Fuzzy Reliability, Uncertainty & Sensitivity Modelling, Human Reliability Modelling, Human Factor Assessment, Failure Analysis Role of Advanced Methods in Human Factors, Artificial Intelligence Methods & Operational Reliability, Risk-informed Asset Management, Risk-based Applications, Risk-based Management Systems, Hazard Evaluation Methods, Hazard & Operability Study (HAZOPS).

## Application Areas

Broad areas of the conference include but not limited to - Nuclear Power Plants & Research Reactors, Oil & gas, Chemical and Refineries, Railways, Space & Aviation Infrastructural, Software Systems, Health Care Systems, Transport and Monitoring Systems, Nuclear Facilities, structural Systems, Electronics & Communication Systems.



ICRESH-2015, Sweden

Authors interested in presenting papers based on original work of theoretical/applied nature or case studies, are invited to submit an abstract not exceeding 400

words latest by **June 15, 2023**. The abstract should include key words / phrases and full e-mail address of the authors. Acceptance of the abstract will be notified by June 30, 2023. Soft copies of abstract and paper in MS word may be mailed to the Chairman, Technical Committee at e-mail address: [icresh24@gmail.com](mailto:icresh24@gmail.com) The length of the paper should not exceed 6 pages. For detailed instructions regarding preparation of manuscript please visit conference web-site.

## Conference Proceedings

Upon receiving notification about the acceptance of the abstracts, authors must submit complete manuscript of the full paper, by **September 15, 2023**. The conference proceedings will be published by a reputed publisher containing contributory papers. If possible full invited and



ICRESH-2019, IIT Madras

key note talks will be included in the soft copy of conference proceedings. The soft copies of the

conference proceedings will be made available to all contributors during the conference. In order to enable the technical committee to bring out the book of proceedings in time, it is essential that the complete manuscript of full-length papers is submitted by the due date positively. Papers received after this date may not be considered for print publication.

## Exhibition / Sponsorship

The conference will provide an opportunity to our commercial and industrial partners to showcase their products and services to support conference activities through sponsorships. Further details may be obtained from the Convenor / Secretary ICRESH-2024 or from the conference web-site.

## Conference Deadlines

Abstract Submission	: June 15, 2023
Abstract Acceptance	: June 30, 2023
Full paper Submission	: Sep 15, 2023
Acceptance Intimation	: Oct 10, 2023
Final submission of Paper	: Oct 31, 2023
Registration deadline	: Dec 31, 2023
<b>ICRESH-2024</b>	<b>: Feb 21-24, 2024</b>

## About the Venue

The conference will be held at the DAE Convention Centre, Anushaktinagar, Mumbai. Mumbai is said to be the financial / business capital of India. The convention centre is located about 20 km from Mumbai International Airport and can be easily accessed by road. It is also easily accessible by road from the Railway stations (CSTM 19 km and Mumbai Central 22 km). The city of Mumbai has all types of hotel accommodation from budget hotels to five-star hotels.



DAE Convention Centre, Mumbai

The Conference will be held from Feb 22-24, 2024. A Pre-Conference Tutorial is arranged on Feb 21, 2024

## Conference Chairman, ICRESH-2024

Prof. P. V. Varde,  
Sr. Professor, HBNI & Former AD, Reactor Group,  
Bhabha Atomic Research Centre, Mumbai

## Technical Committee

Dr. (Mrs.) Gopika Vinod, BARC, Chairperson  
Ms. Vibha Hari, NPCIL  
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Mr. Santosh Pradhan, AERB  
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Mr. Mayank Agarwal, BARC  
Prof. P. Vaishnavi, Anna University

## Organising Committee

Shri N.S. Joshi, BARC, Conf. Secretary, ICRESH-2024  
Dr. Alok Mishra, Westinghouse  
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## Treasurer

Shri Mayank Agarwal, BARC

For further details please contact:

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Bhabha Atomic Research Centre,  
Mumbai 400085  
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## First Announcement and Call for Papers

5<sup>th</sup> ICRESH

2024



## 5<sup>th</sup> International Conference on Reliability, Safety and Hazard – 2024

*(Advances in Risk & Reliability Modelling and  
Assessment)*



Gate Way of India

February 21-24, 2024

Venue: DAE Convention Centre,  
Anushaktinagar, Mumbai, India

## Organisers

Bhabha Atomic Research Centre, Mumbai,  
Society for Reliability and Safety, Mumbai  
Centre for Advanced Life Cycle Engineering,  
University of Maryland, USA

## Sponsors

Relsafe PRA Consulting

<https://barc.gov.in/symposium/icresh.pdf>