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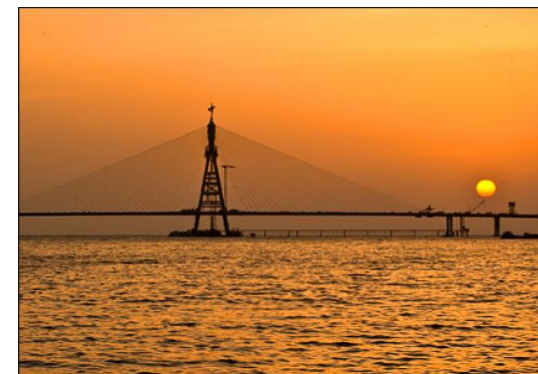
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Announcement & Call for paper

International Conference on Reliability, Safety and Hazard – 2010

(Risk-based Technology & Physics-of-Failure Methods)



14-16, December 2010

Venue: Hotel Four Points by Sheraton,
Vashi, New Mumbai (India)

Organizers :

Bhabha Atomic Research Centre, Mumbai India
CALCE, University of Maryland, USA
International Inst. of Info. Technology, Pune, India

Sponsors :

Board of Research in Nuclear Sciences
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Electronic Corporation of India Limited
Raja Ramanna Center for Advanced Technology
Board of Radiation and Isotope Technology

<http://www.barc.gov.in/symposium/icresh-10/index.html>

About the Conference

Bhabha Atomic Research Center, Mumbai, along with Center for Advanced Life Cycle Engineering, University of Maryland, USA and Society for Reliability & Safety are jointly organizing an International Conference on Reliability Safety and Hazard with the theme 'Risk-based Technologies and Physics of Failure Methods' (ICRESH-2010) during 14 -16 December 2010, in Mumbai.

The first International Conference on Reliability, Safety and Hazard (ICRESH-2005) – with the theme 'Advances in Risk-informed Technologies' was successfully organized during 1-3 December 2005, in Hotel Leela Kempinski, Mumbai. This conference was attended by over 230 delegates which included, apart from Indian experts from many reputed labs and universities, around 30 delegates from 17 advanced countries like USA, UK, Germany, Russia, Netherlands, South Korea, and other European countries. Overall 130 papers and 30 invited talks and key note addresses marked the proceedings of the conference. A book entitled "Reliability, Safety and Hazard – Advances in Risk-informed Technologies" containing the papers presented in this conference; was published.



been performed as part of risk-based applications. One of the new paradigms in Life and Reliability prediction, which is catching every organization's attention, is development and application of Physics-of-Failure (PoF) approach. The major feature of this approach, apart from prediction of Life and Reliability, is identification of the root cause(s) of failure. Hence, this approach becomes part of Risk-based technology by addressing issues that require deterministic treatment.

The objective of this conference is to provide a forum for technical discussions on recent developments in the area of risk-based approach and role of physics-of-failure methods in decision making.

The conference invites research and technical papers of high quality, bringing out the original contributions, for presentation in the conference proceedings. It is proposed to publish a book containing the papers presented in the conference.

Conference Topics

Reliability Prediction, Quantitative Methods, Software reliability, Physics of Failure Models, Passive System Reliability, Investigation of Safety Critical Issues, Probabilistic Safety Assessment, Role of Deliberative and Annalistic Approach in Regulatory Framework, 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 Methods for Reliability Prediction, Remaining life Prediction in Support of Ageing Management, Passive System Reliability, Uncertainty & Sensitivity modeling, Human Reliability Modeling, Human Factor Assessment, 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 (HAZOP)

Application Areas

Nuclear Power Plants & Research Reactors, Chemical and Processing Plants, Aerospace and Navigation Systems, Infrastructural, Software Systems, Health Care Systems, Transport and Monitoring Systems, Nuclear Facilities, Structural Systems, Electronics & Communication Systems

Authors interested in presenting papers based on original work of theoretical/ applied nature or case studies, are invited to submit an extended abstract not exceeding 400 words latest by June 15, 2010. 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, 2010. Soft copies of abstract and paper in MS word should be mailed to the convener / Secretary at e-mail address: icresh10@barc.gov.in. The length of the paper should not exceed 6 pages as per paper format specifications. For detailed instructions regarding preparation of manuscript please visit conference web-site.

Conference Proceedings

Upon receiving notification from the technical programme committee regarding acceptance of the abstracts, authors must submit complete manuscript of the full paper not exceeding 6 pages, by September 30, 2010. A memorandum of understanding has been worked out with a reputed publisher to bring out the proceedings of this conference containing full length invited talks and contributed papers. The printed volumes will be made available during the conference. In order to enable the technical committee to bring out the printed volume well in time it is essential that complete manuscript of full length papers is submitted by September 30, 2010 positively. Papers received after this date will not be considered for print publication.

Conference Registration

For conference registration fee and payment modes, please refer to the details given in registration form. The form may be completed and submitted by email to the convener or secretary ICRESH 2010 at icresh10@barc.gov.in

Conference Deadlines

Abstract submission	: June 15, 2010
Abstract acceptance	: June 30, 2010
Full paper submission	: Sept 15, 2010
Acceptance intimation	: Sept 30, 2010
Final submission of paper	: Oct 20, 2010
Registration deadline	: Oct 15, 2010

About the Venue



The conference venue - Four Points by Sheraton is situated in the corporate hub Vashi in Navi Mumbai, India and caters to business traveler into the area. This hotel is Located near Vashi Station on Plot 39/1, 6 To 15, Sector 30A, in Vashi - the main suburb of Navi Mumbai. The hotel is 33 km away from the Mumbai airport and 15 kms from Panvel Railway station (Konkan, Central and Southern rail routes).

Four Points by Sheraton in Vashi is in the corporate hub of the Navi Mumbai Metropolis. The hotel is designed to meet the needs of today's discerning traveller. Designed in a contemporary style, it has 150 guest rooms and suites tastefully decorated to provide all the comforts of home. Its three restaurants and lounge bar present a selection of cuisines from around the world. The Health Club and Swimming Pool give a welcome chance to relax and recharge after a long day of work. The hotel fulfills all the requirements of the conference. Around thirty single rooms and a few suits to be allotted by the organizing committee on 'First Come First Served' basis. Since December is a busy period for hospitality industry, it would be advisable to book accommodation well in advance. For more details log on to <http://www.fourpoints.com>

Exhibition / Sponsorship

The conference will provide an opportunity to our commercial and industrial partners to exhibit their products / services to support conference activities through sponsorships. Display platforms will be provided at the venue of the conference. Further details may be obtained from the Convenor / Secretary ICRESH-2010 or from the conference web-site.