

**32nd DAE SAFETY & OCCUPATIONAL HEALTH PROFESSIONALS MEET
AT RRCAT, INDORE**

5 - 7 OCTOBER, 2015

Day 1: October 05, 2015 (Monday)

Inaugural Session – 0930 hrs. – 1130 hrs.

Welcome Address : Dr. S. M. Oak
Chairman, Apex Safety Committee & Head, Solid State Laser Division
Raja Ramanna Centre for Advanced Technology, Indore

About the Meet : Shri K. Ramprasad
Head, Industrial Plants Safety Division
Atomic Energy Regulatory Board, Mumbai

Release of Monograph on “Safety in Evolving & Advanced Technological Applications” & “Positive Health Management” and Address:
Shri R. Bhattacharya
Vice Chairman
Atomic Energy Regulatory Board, Mumbai

Prize Distribution for Logo Competition & Introductory Address:
Dr. P. D. Gupta
Director
Raja Ramanna Centre for Advanced Technology, Indore

Release of CD of Technical Proceedings and Address by Guest of Honour:
Shri K.C. Purohit
Chairman & Managing Director
Nuclear Power Corporation of India Ltd., Mumbai

Release of Technical Proceedings, Environment Protection Award Presentation & Inaugural Address:
Shri S.A. Bhardwaj
Chairman
Atomic Energy Regulatory Board, Mumbai

Dr. S.S. Ramaswamy Memorial Endowment Lecture on “Safety in Evolving & Advanced Technological Applications”:
Dr. A.E. Muthunayagam
Former Secretary, Ministry of Earth Sciences
Government of India

Vote of Thanks: Shri S. Jalali
Head, Fire & Safety Section
Raja Ramanna Centre for Advanced Technology, Indore

Inauguration of Exhibition:
Shri S.A. Bhardwaj
Chairman,
Atomic Energy Regulatory Board, Mumbai
&
Dr. P. D. Gupta
Director
Raja Ramanna Centre for Advanced Technology, Indore

High Tea (1130 hrs. – 1200 hrs.)

Day 1: October 05, 2015 (Monday)

Chair Panel : Dr. D. K. Srivastava
Director, VECC, Kolkata
Shri N. S. Gabhane, Director, DCSEM, Mumbai

1. Invited Talk on "Laser Safety Aspects in Research, Development & Applications"
Dr. P. A. Naik
Head, Laser Plasma Division & Indus Synchrotrons Utilization Division, RRCAT, Indore

2. Invited Talk on "Safety systems for Cyclotrons at VECC, Kolkata"
Dr. Subimal Saha
Outstanding Scientist, Project Director, Medical Cyclotron Project, Head, ATG & CPIESG,
VECC, Kolkata

Lunch (1300 hrs. – 1400 hrs.)

Technical Session – II Invited Talks on "Safety in Evolving & Advanced Technological Applications"
(1400 hrs. – 1500 hrs.)

Chair Panel : Dr. P.D. Gupta
Director, RRCAT, Indore

1. Invited Talk on "Safety aspects of Generations III+ Beyond Reactors" –
Shri Ashok Chauhan
Director (Technical), NPCIL, Mumbai

2. Invited Talk on "Seismic Hazards and Structural Safety Evaluations for Nuclear Installations, post Fukushima Accident" -
Shri L. R. Bishnoi
Director, Siting & Structural Engineering Division (SSED), AERB, Mumbai

Poster Session & Tea (1500 hrs. – 1630 hrs.)

Technical Session – III Invited Talks on "Positive Health Management"
(1630 hrs. – 1800 hrs.)

Chair Panel:
Shri R. Bhattacharya
Vice-Chairman, AERB
&
Dr. P.T.V. Nair
Chairman, ACOH, AERB

1. Invited Talk on "How to take care of your back" –
Dr D. K. Taneja
Orthopaedician, Arihant Hospital, Indore

2. Invited Talk on "Pre-hospital management of Coronary artery disease"
Dr Idris Ahmed Khan
Cardiologist, Bombay hospital Indore

3. Invited Talk on "Stress Management through Yog"
Dr.(Mrs) Shirley Telles
Director, Patanjali Research Foundation, Patanjali Yogpeeth, Haridwar

Presentation by Exhibitor 1800 hrs to 1830 hrs in Lecture Hall No.1

Cultural Programme (1900 hrs. – 2000 hrs.)

Dinner (2000 hrs – 2100 hrs.)

Day 2: October 06, 2015 (Tuesday)

Plenary Session I – (0900 hrs. to 1100 hrs.)

Topic : Presentation on Injury & Occupational Health Statistics, Fatal Accidents and Near miss Accidents

Chair Panel:

Dr. P.K. Gupta, Associate Director, RRCAT, Indore
&
Shri C.K. Asnani, Director (T), IREL

- **Lead Talk “Time tested good practices for strengthening of Safety Culture” –**

Shri D.K. Shukla, Group Director (RR), AERB

1. **Injury Statistics –**

Shri A. K. Panda, SO/F, IPSD, AERB

2. **Occupational Health Statistics –**

Shri S.R. Bhave, SO/F, IPSD, AERB

Presentations on Fatal Accidents:

1. Fatal Accident of a contractor worker during material handling by crane on 06/11/2014 a Steel Yard of M/s Hindustan Construction Company Limited, RAPP 7&8 -
Shri J.R. Khatsuriya, Head, I & FS, RAPP 7 & 8, Dr. S. Ganesan, Certifying Surgeon, RAPS
2. Fatal Accident of a worker on 21/11/2014 due to fall in the dyke of D₂O storage tank from boundary wall at RAPS 1&2 –
Shri Ajay Bansod, Head, I&FS, RAPS 1 & 2, Dr. S. Ganesan, Certifying Surgeon, RAPS
3. Fatal Accident at the construction Site of Pyro Process Research & Development Facility (PPRD) on June 09, 2014 –
Shri S.S. Prasad Gogu and Dr. M.K. Mohammed Razeek, Certifying Surgeon, IGCAR

Presentation on Near Miss Accidents

4. Reporting and Analysis of NMAs – A tool for Accident Prevention (case Studies) –
Shri R. Thirumurgan, Sukhveer Singh, Alope Varshney & Pankaj Khot, NPCIL, Mumbai
5. Case Studies of Near Miss Incidents Occurred at Heavy Water Plants –
Shri A.K.Sahu, N.L.Malaikar, B.T. Shesasai & S.G. Belokar, HWB, Mumbai
6. Case Studies on Near Miss Accidents Occurred at BHAVINI-
Smt. N. Kanagalakshmi, Shri R. Yuvarajan & K. Rajagopalan, PFBR, BHAVINI, Kalpakkam

TEA (1100 hrs. – 1130 hrs.)

Plenary Session II – (1130 hrs. – 1330 hrs.)

Topics: Contributory papers on “Safety in Evolving & Advanced Technological Applications”

Chair Panel :

Shri Subimal Saha, Project Director, Medical Cyclotron & Chairman, VECC Safety Committee
VECC, Kolkata
&
Dr. S.M. Oak, Head, Solid State Laser Division
RRCAT, Indore

1. Advanced Safety Measures Implemented in Negative Neutral Beam (Nnb) HVPS Facility at IPR –
Shri A.Gahlaut, V.Mahesh, A.K. Chakraborty & K.G. Parmar, IPR, Gandhinagar
2. Implementation of Safety Measures of New High Heat Flux Test Facility at IPR –
Shri Sunil Belsare, Rajamannar Swamy, Tushar Patel & Samir Khirwadkar, IPR, Gandhinagar
3. Electropolishing of Superconducting RF Cavities –
Shri S.Raghavendra, S.K. Suhane, P.Ram Sankar, A.P.Singh, Amar Singh, K.K.Das, S.K.Chauhan,
S.V.Kokil, D.S.Rajpoot and S.C.Joshi, RRCAT, Indore
4. Challenges Faced in Mastering Sodium Technology during the Operation of Fast Breeder Test Reactor –
Shri M. Thangamani , G.Shanmugam, K.V. Suresh Kumar, IGCAR, Kalpakkam

Day 2: October 06, 2015 (Tuesday)

5. Safety Aspects in the Fabrication of Nitride Metal Organic Vapour Phase Epitaxy System –
Shri G. Jayaprakash, Tapas Ganguli, V. Agnihotri, and S. M. Oak, RRCAT, Indore

6. Handling of Self Powered Neutron Detectors from Reactor Core –
Shri Anant Kumar Singh and Amit Roy, TAPS-3&4

7. Advanced Technique for Estimating Frequency of Failure in Nuclear Facilities –
Shri Diptendu Das, Ms. Sadhvi Srinivasan, K Ramprasad and Ramdas Bhattacharya, IPSD, AERB

Lunch (1330 hrs to 1430 hrs)

Parallel Session IA – (1430 hrs. – 1600 hrs.)

Topic: Contributory papers on “Industrial Safety”

Chair Panel:

Shri K. Ramprasad, Head, IPSD, AERB
Shri S. Soundararajan, Head, IHSS, BARC

1. Performance of Indus-2 Machine Safety Interlock System –
Shri A.M.Gupta, Pankaj Gothwal Bhavna Merh, P. Fatnani, RRCAT, Indore
2. Safety and Environment (S&E) Aspects of Tokamak-Type Fusion Power Reactors - An Overview –
Shri Bharat Doshi and D. Chenna Reddy IPR, Gandhinagar
3. Evolution of Intelligent Fire Detection and Alarm Technology –
Shri A.K. Panda and Ms. Paridhi Aggarwal, IPSD, AERB
4. Ozone Generation in Synchrotron Radiation Beamlines of Indus-2 and its Safety Measures –
Shri Saleem Khan, Vijay Kumar, Haridas.G., A.K.Sinha, T.A.Puntambekar, RRCAT, Indore
5. RF & MW Radiation Hazards, Safety and Measurements at RRCAT –
Shri M.K.Nayak & Haridas.G, HPU, RRCAT(HPD, BARC)
6. Fire Hazard Analysis of 30 MeV Medical Cyclotron Project (MCP), VECC –
Shri M. K. Pathak, ERRC, AERB

Parallel Session IB – (1430 hrs. – 1600 hrs.)

Medical Session: Contributory papers on “Positive Health Management”

Chair Panel :

Dr. R. T. Sachdeo, CMS, NPCIL
Dr. Hemant Haldavnekar
Incharge
Trombay, Vashi & Kalyan Dispensary, BARC

1. Clinical Case Discussion –
Dr. P.T.V. Nair, Chairman, ACOH
2. A deadly incident at home after mixing household chemicals - A case study at TAPS Hospital -
Dr. (Mrs.) M. S. Daniel, Dr. (Mrs.) Sweta Agrawal, Dr. P. K. Yadav, Medical Superintendent, TAPS
3. Does Diabetes Cause Depression? –
Dr Ajay Dubey, Medical Officer In Charge, KKNPP Hospital, NPCIL
4. Medical Examination for working in Heights-
Dr D.S.Kathuria , Medical Superintendent , RAPS Hospital, Dr S.Ganesan , Certifying Surgeon , RR Site.
5. Medical Applications of Laser –
Dr Umesh Naiknaware, MO, Dr P K Gupta, Associate Director & Head, LBAID, Dr Z B Mirza, I/C MO

Tea (1600 hrs. – 1630 hrs.)

Day 2: October 06, 2015 (Tuesday)

Parallel Session IIA – (1630 hrs. – 1745 hrs.)	Parallel Session IIB – (1630 hrs. – 1745 hrs.)
Topic: Contributory papers on “Industrial Safety” Chair Panel: Shri S.G. Belokar, GM(S,H & E), HWB Shri Alope Varshney, CE (IS&F), NPCIL	Medical Session: Contributory papers on “Positive Health Management” Chair Panel : Dr. A.V. Kulkarni, Head, Medical Division, BARC Dr. (Mrs.) M. S. Daniel, Certifying Surgeon, TAPS, NPCIL
<ol style="list-style-type: none">1. Safety Audit from KGS- Shri Jayaprakash Hegde, KGS, Kaiga2. Safety Aspects in Fabrication of Radiation Hard Semiconductor Detector – Shri V.K.Dixit, S.K.Khamari & A. Chatterjee, RRCAT, Indore3. Safety Aspects of Ultra Short Ultrahigh Intensity LASER Matter Interaction Experimental Facilities – Shri B.S. Rao, J.A.Chakera & P.A. Naik, RRCAT, Indore4. On the Safety Measures for Hydrogen Bromide Gas in Copper-Hydrogen Bromide (Cu-HBr) Laser Facility at RRCAT – Shri R. Biswal, S. Talwar, G. K. Mishra, S. K. Dixit & S. V. Nakhe, RRCAT, Indore5. Safety Issues in LASER Cutting of nuclear reactor component – Shri B.N. Upadhyaya, K.S.Bindra, S.M.Oak and P.D. Gupta, RRCAT, Indore6. Challenges in Massive Excavation Work at FRFCF Site in Kalpakkam Complex- Shri C.Vijayakumaran, P. Venkatanarayana, S. Kandasamy & K.K.Satpathy, FRFCF, IGCAR	<ol style="list-style-type: none">1. Case Studies – Dr. Arindam Chatterjee, Certifying Surgeon, VECC, Kolkata2. Occupational Pressure Management among Employees – Dr..J. Vijay Rao, K.Chandraiah, Dr.R.J.Srinivas Rao, NFC3. Positive Health - A Mirage? – Dr. Prasad M. Agavane, Certifying Surgeon, KAPS4. Cancer Prevention in India – Dr. Achintya Bhattacharyya, Medical Officer, VECC,Kolkata

Visits to Laboratories (1800 hrs – 1900 hrs)
Cultural Programme (1900 hrs. – 2000 hrs.)
Dinner (2000 hrs – 2100 hrs.)

Day 3: October 07, 2015 (Wednesday)

Plenary Session III – (0900 hrs. – 1015 hrs.)

Contributory papers on “Industrial & Occupational Health Safety”

Chair Panel :

Dr. K.K. Satpathy, Head, E&ISS, IGCAR
Shri Sudheer Thakur, G M (Safety & Projects), NFC

1. Ventilation Requirement Optimization: A Case Study –
Shri S. Soundararajan, Nishith Ghosh, J.D. Sharma, G. Haridas, Pradeepkumar K.S., BARC
2. Challenges & strategies for promoting safety during construction of Nuclear Power Project at RR Site –
Shri B.C.Pathak & J.R. Khatsuriya, RAPP 7&8
3. Ergonomics Assessment for Improving the Working Conditions at IGCAR, Kalpakkam –
M.V.R. Prasad, K.K. Satpathy, K.R. Balasubramanian, S.P. Sivapirakasam & K. Sankaranarayananasamy,
IGCAR, Kalpakkam
4. Obesity and Its Management –
Dr. P.T.V. Nair, Chairman, ACOH

Tea (1015hrs – 1030 hrs)

Valedictory Session – (1030 Hrs. – 1300 Hrs.)

Chair Panel :

Shri R. Bhattacharya, Vice Chairman, AERB, Mumbai
Shri K. Ramprasad, Head, IPSD, AERB

Briefing on Parallel Session I & II : Safety Professionals & Occupational Health Professionals

Presentations by Exhibitors

Prize Distribution for Poster, Slogans Competition among DAE Employees

Feedback on 32nd DAE Safety & Occupational Health Professionals Meet

Felicitations

Venue & Theme: 33rd DAE Safety & Occupational Health Professionals Meet

Lunch (1300 Hrs to 1400 Hrs)

1400 hrs –Onwards ----- Sightseeing / Visit to Laboratories