

N.2: 32nd DAE Safety & Occupational Health Professionals Meet at RRCAT

The 32nd DAE Safety & Occupational Health Professionals Meet was jointly organized by Atomic Energy Regulatory Board (AERB), Mumbai and Raja Ramanna Centre for Advanced Technology (RRCAT), Indore during October 05-07, 2015 at RRCAT, Indore. This Meet is organized annually with various themes on industrial safety and occupational health by AERB jointly with one or more units of Department of Atomic Energy (DAE) to promote and motivate safety and occupational health aspects in DAE.



Shri S. A. Bhardwaj, Chairman, AERB, releasing the Proceedings of 32nd DAE Safety & Occupational Health Professionals Meet, organized at RRCAT during October 5 - 7, 2015. Seen on the dais are (L to R): Dr. R. Bhattacharya, Vice Chairman, AERB; Dr. P. D. Gupta, Director, RRCAT; Shri S. A. Bhardwaj; Dr. A. E. Muthunayagam, former Secretary, Ministry of Earth Sciences; Dr. S. M. Oak, Chairman, Apex Safety Committee & Head, SSLD, RRCAT; and Shri K. Ramprasad, Head, IPSD, AERB.

The themes for this year's three day Safety meet was "Safety in Evolving & Advanced Technological Applications" for industrial safety and "Positive Health Management" for occupational health safety. The meet was inaugurated by Shri S. A. Bhardwaj, Chairman, AERB. About 300 delegates from various DAE Units and DAE aided institutes participated in the meet. Dr. S. M. Oak, Chairman Apex Safety Committee & Head Solid State Laser Division, RRCAT, Indore welcomed the gathering. Shri K. Ramprasad,

Head, Industrial Plants Safety Division, AERB, Mumbai briefed about the important milestones, significant achievements of the past meets and highlights of this year's meet. He informed the gathering that a record of 72 contributory papers including 62 related to industrial safety and 10 related to occupational health safety were included in the Proceedings of the Meet, which was released by Shri S. A. Bhardwaj, Chairman, AERB.

A Monograph on "Safety in Evolving and Advanced Technological Applications & Positive Health Management" was released by Dr. R. Bhattacharya, Vice Chairman, AERB followed by his address. Dr. P. D. Gupta, Director, RRCAT, Indore distributed prizes to winners of logo competition and also released the CD of technical proceedings and addressed the gathering. The AERB Environmental Protection Awards for the year 2014 were presented to the winners of DAE units; Kakrapar Atomic Power Station 1 & 2 (KAPS 1 & 2), NPCIL and Bhartiya Nabhikiya Vidyut Nigam Ltd. (BHAVINI), Kalpakkam. These units have worked hard for the protection of the environment and sustainability. Shri Bhardwaj gave away the awards, released the technical proceedings commemorating the meet and delivered the inaugural Address. Dr. S. S. Ramaswamy Memorial Endowment Lecture on "Safety in Evolving & Advanced Technological Applications" was delivered by Dr. A. E. Muthunayagam, Former Secretary, Ministry of Earth Sciences, Government of India. A technical exhibition on Nuclear Technology, Industrial and Fire Safety Appliances, Laser Safety, Public Awareness & Safety and Regulatory aspects was organized during the meet for the benefit of the participants and encourage interactions between industries and DAE units. Shri S. A. Bhardwaj, Chairman, AERB and Dr. P. D. Gupta, Director, RRCAT jointly inaugurated the exhibition. Other than manufacturers, there were exhibition stalls of AERB and BARC, Mumbai. A press conference was also organized at RRCAT after the inaugural program of the meet.

The inaugural session was followed by three technical sessions in which renowned experts from DAE as well as non-DAE facilities delivered lecture on topics covering "Safety in application of Laser & Accelerator" "Safety systems for Cyclotrons at VECC, Kolkata", Safety aspects of generation III+ beyond reactors", Seismic and structural stability, post Fukushima incident" and "Positive Health Management" in addition to other areas of the theme.

Second day technical session began with Lead Talk delivered by Shri D. K. Shukla, AERB on "Time tested good

practices for strengthening of Safety Culture". AERB officers presented the injury statistics of last five years which revealed that the incidences of injuries and fatalities have progressively reduced. The case study analyzing the causes of fatal accidents in four units of DAE and remedial measures were eye opener and presenters were grilled by the participants. The session also discussed on near miss accidents. 20 contributory papers on Industrial safety and 10 on Occupational Health safety were presented in parallel sessions on second day of the meet. The safety professionals had detailed deliberations on current practices, care and prevention.

The third day technical session covered 6 contributory papers on Industrial safety in addition to invited talk by Dr. P. T. V. Nair, AERB. This was followed by valedictory session the participation of thrilled audience in valedictory session on concluding day was unprecedented. The prizes for winners of Poster, Cartoon and Slogan Competitions conducted amongst DAE Employees were distributed. During feedback session, the participants appreciated the contents included and deliberated in technical sessions. The participant's whole heartedly appreciated the hospitality extended by RRCAT.

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N.3: One day theme meeting on Indus synchrotrons utilization

A one day theme meeting on "Indus synchrotrons utilization" was organized by RRCAT in association with Anand Niketan College, Gondwana University. The meeting was held at Anand Niketan College, Anandwan, Dist. Chandrapur, Maharashtra on 25th Jan 2016. The main objective of this meeting was to provide some basic information on synchrotron based beamlines and their application to applied and basic research areas to the faculties and research students from colleges and universities located near Anandwan. About 80 participants from various colleges and departments affiliated to the Gondwana University, RTM-Nagpur University, and SGB-Amaravati University, participated in this meeting. The meeting was inaugurated by Dr.S.M. Rodke, Director, Board of College and University Developments, Gondwana University. All the dignitaries present in the inauguration appreciated the efforts made by

RRCAT for organizing the meeting to create awareness about the uses of the beamlines at the Indus synchrotrons.



A photograph of the participants at the one day theme meeting at Anandwan.

Dr. Ravindra Makde (BARC/RRCAT), Dr. Archana Sagdeo (RRCAT), Dr. Vishal Dhamgaye (RRCAT), and Dr Mukul Gupta (UGC-DAE-CSR) delivered various talks at the meeting covering a wide spectrum of synchrotron based technologies and research. The presentations in this meeting started with an overview on Indus synchrotrons and their beamlines by Dr. Makde. Later Dr. Makde also presented the details about the imaging, protein crystallography, and infrared beamlines available at Indus. Dr. Dhamgaye introduced the basics of synchrotron radiation source. He then presented the recent results from x-ray fluorescence and x-ray lithography beamlines. Dr. Sagdeo introduced the techniques of x-ray absorption and x-ray diffraction and showed some recent results from EXAFS and XRD beamlines. Dr. Mukul Gupta covered the details of the beamlines managed by UGC-DAE-CSR, namely, the Angle integrated photo-electron spectroscopy and Soft x-ray absorption beamlines. He also presented some details of the laboratory based experimental facilities available for the university users at UGC-DAE-CSR.

The participants asked several queries related to synchrotron beamlines and their capabilities. At the concluding session, discussions between beamline scientists and the participants were held to explore the possibilities of utilization of the facilities at Indus synchrotrons for their research activities.

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