33rd DAE SAFETY & OCCUPATIONAL HEALTH PROFESSIONALS MEET AT IPR, GANDHINAGAR

NOVEMBER 23 - 25, 2016

Day 1: November 23, 2016 (Wednesday)

Inaugural Session – (0930 Hrs. – 1130 Hrs.)

Welcome Address: Dr. D. Chenna Reddy, Member Secretary, Steering Committee

About the Meet & Release of Monograph on "Safety in High Power and High Energy Advanced Technologies" & "Clinical Applications of Lasers": Shri D. K. Shukla, Distinguished Scientist, Executive Director, AERB, Mumbai

Prize Distribution for Logo Competition & Introductory Address: Dr. Shashank Chaturvedi, Director, IPR, Gandhinagar

AERB Award, Release of CD of "POSTER-BARC", Release of Technical Proceedings & Inaugural Address: Shri S. A. Bhardwaj, Chairman, AERB, Mumbai

Dr. S.S. Ramaswamy Memorial Endowment Lecture on "Energy and Environment: Plasma Processes for Decarbonization"." – Prof. P. I. John, Ex. Sr. Professor, IPR, Gandhinagar

Vote of Thanks: Shri K. Ramprasad, Head, RMS, R&DD, AERB and Chairman, Technical Programme Committee

Inauguration of Exhibition: Shri S. A. Bhardwaj, Chairman, AERB, Mumbai

High Tea (1130 Hrs. - 1200 Hrs.)

Technical Session – I Invited Talks on "Safety in High Power and High Energy Advanced Technologies" (1200 Hrs. – 1320 Hrs.)

Chair Panel: 1. Dr. Pradeep Kumar K.S., Outstanding Scientist, Associate Director (HS&EG), BARC 2. Shri D. C. Srivastava, Outstanding Scientist, Sr. GM(Operation), HWB

- 1. Invited Talk on "Safety Aspects in Particle Accelerators" Shri. P. V. Bhagwat, Outstanding Scientist, Head, Ion Accelerator Development Division, BARC, Mumbai
- 2. Invited Talk on "An Overview of NPCIL Technological Development Activities for Enhanced Safety, Reliability and Execution Excellence of Upcoming NPPs" Shri S.F. Vhora, Outstanding Scientist, ED(TDG), NPCIL

Lunch (1320 Hrs. - 1415Hrs.)

Technical Session – II Invited Talks on "Safety in Evolving & Advanced Technological Applications" (1415 Hrs. – 1530 Hrs.)

Chair Panel: 1. Shri R. S. Sunder, Distinguished Scientist, Site Director, KKNPP

- 2. Shri S. F. Vhora, Outstanding Scientist, ED(TDG), NPCIL
- Invited Talk on "Challenges in Safety Regulation of R&D Activities for Advanced Technologies in DAE Units " - Shri D. K. Shukla, Distinguished Scientist, Executive Director, Atomic Energy Regulatory Board, Mumbai
- 2. Invited Talk on "Safety in High Power RF and Microwave Sources for Fusion Reactor" Dr. Sanjay Kulkarni, Scientist-H, Institute for Plasma Research, Gandhinagar

Tea (1530 Hrs. - 1600 Hrs.)

Technical Session – III Invited Talks on "Clinical Applications of Lasers": (1600 Hrs. – 1730 Hrs.)

Chair Panel: 1. Shri D.K. Shukla, Distinguished Scientist, Executive Director, AERB 2 Dr. P.T.V. Nair, Former Head, Medical Division, BARC & Chairman, ACOH

- Invited Talk on "Lasers in Medicine Ophthalmology" Dr. Shashank Rathod, Eye Surgeon, M.S. (Ophth.), FICO, FJMF(Japan)
- **2.** Invited Talk on "Issues Related to Occupational Health and Safety of Workers" Dr. Sunil Kumar, Director In-charge, NIOH, Ahmedabad

Cultural Programme (1900 Hrs. – 2000 Hrs.) Dinner (2000Hrs – 2100 Hrs.)

Day 2: November 24, 2016 (Thursday)

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

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

Chair Panel: 1. Shri V. V. Pande, Head, IPSD, AERB 2. Shri Aloke Varshney, CE (IS&F), NPCIL

- 1. Injury Statistics Shri Phani Kartik, SO/E, IPSD, AERB, Mumbai
- 2. Occupational Health Statistics Shri N. M. Chodankar, SO/D, IPSD, AERB
- 3. Presentations on Fatal Accidents:
 - Fatal Accident of a contractor worker from M/s Hindustan Construction Company Limited, RAPP 7&8 while erecting the landing platform on Scaffolding on 28th December 2015.- Shri S.S.Khinchee, SO/E (IS&F) & Sr. Safety Officer, RAPP-7&8 and Dr. S.Ganesan, Certifying Surgeon, RAPS Hospital
 - ii. Fatal accident at ZFP building expansion site, NFC due to collapse of roof slab on February 08, 2016 Shri B. Lakshman Babu, Sr Supdt.Engr, CED & Dr. J. Vijay Rao, Certifying Surgeon, NFC
 - iii. Fatal Accident at Scrap Yard, Tube Plant, NFC due to blunt injury & chest injury during unloading the transformer on 27th September, 2016 Shri V. V. Mahesh Kumar, AGM, Safety & Dr. J. Vijay Rao, Certifving Surgeon, NFC
- 4. Presentation on H₂S Gas Exposure to Employee of HWP (Kota) due to Leakage of Gas during the Maintenance Work. HWP(Kota)
- 5. Reporting & Analysis of NMAs A Tool for Accidents Prevention (Case Studies) S/Shri A.Chougaonkar, M.U. Vincy, N.N. Pisharody, Aloke Varshney, Pankaj Khot, NPCIL, Mumbai

Tea (1100 Hrs. - 1130 Hrs.)

Plenary Session II - (1130 Hrs. - 1300 Hrs.)

Topic: Industrial & Occupational Health Safety

Chair Panel: 1. Shri S. G. Belokar, GM(S,H&E), HWB

- 2. Dr. Hemant Haldavnekar, Medical In charge, Trombay Dispensary, BARC
- 1. Life Style Management Dr. M.L. Parihar, HWP, Kota
- 2. Occupational Stress Disorders Dr.(Mrs) Jyoti A Purendare, MOIC, KAPS Hospital, Kakrapar
- 3. Human Error Reduction Techniques Encompassed in Personal Monitoring Services at TLD Lab, Shri K.B. Jashi, Ashok Kumar A, Pandaram P, Rakesh R.B., KKNPP
- 4. Occupational Skin Disorders Dr. Vivek Dabade, BRIT, Mumbai
- 5. Safety Climate Mapping In a Nuclear Power Plant- An Experience Sharing Shri M.U. Vincy, Aloke Varshney, Pankaj Khot, NPCIL, Mumbai

Lunch (1300 Hrs to 1400 Hrs)

Parallel Session IA - (1400 Hrs. - 1530 Hrs.)

Topic: Contributory papers on "Chemical & Fire Safety"

Chair Panel:

- 1. Dr. Sanjay Kulkarni, Scientist-H, IPR
- 2. Dr. K.K. Satpathy, Head, E&S, IGCAR
- Assessment of Fire Hazard Potential within a Hot Cell – Seik Mansoor Ali, Tejaswi Abburi, V. Balasubramaniyan, IGCAR, Kalpakkam
- 2. Optical Fiber Based Temperature Sensors for Fire Detection in High Electric and Magnetic Field Environment S. Kher, Manoj Kumar Saxena, Smita Chaubey, S.D.V.S. Jagannadha Raju, K.S. Bindra, RRCAT, Indore
- 3. Experience With Cryogenics Safety, Problems and Solutions Rajiv Sharma, V.L. Tanna, IPR, Gandhinagar
- Chemical Safety Management in WIP, Kalpakkam - An Overview – Biplab Das, K.V. Ravi, Nuclear Recycle Board, BARC, Kalpakkam
- Advanced Fire Prevention Techniques for ITER-India Laboratory Building, IPR – D.V. Modi, D. Chenna Reddy, IPR, Gandhinagar

Parallel Session IB - (1400 Hrs. - 1530 Hrs.)

Medical Session: Contributory papers on "Occupational Health"

Chair Panel:

- 1. Dr. P.T.V. Nair, Chairman, ACOH
- 2. Dr. (Mrs.) M. S. Daniel, CS, TAPS
- Invited Lead talk on Lasers for Medical Diagnostics - Dr. Shovan K. Majumder, Hemant Krishna, RRCAT
- 2. Emotional Intelligence: Occupational Pressure Management among Employees Dr. J. Vijay Rao, K.Chandraiah
- 3. Laser Treatment for Eye Dr (Mrs.) Santhi Ganesan, Certifying Surgeon, RAPS Hospital
- Therapeutic Applications of CO2 Laser Dr. Umesh Naiknaware and Dr. Z. B. Mirza, RRCAT, Indore

INTERACTIVE & POSTER AND TEA SESSION (15:30 HRS. TO 16:30 HRS.)

Parallel Session IIA – (1630 Hrs. – 1800 Hrs.)	Parallel Session IIB (1630 Hrs. – 1730 Hrs.)	
Topic: Contributory papers on "Industrial Safety"	Medical Session: Contributory papers on	
Chair Panel:	"Occupational Health"	
1. Dr. D. Chenna Reddy, Scientist-H, IPR	Chair Panel:	
2. Shri K. Srivasista, Director, Rⅅ, AERB	1. Dr. D. S. Kathuria, CMS, NPCIL	
	2. Dr. J. Vijay Rao, CMO, NFC	
Case Study on Unusual Occurrence of Wire Rope	1. Case Presentations – Dr. P.T.V. Nair, Former	
Failure of 15/5t EOT Crane at One of the Plant -	Head, Medical Division, BARC	
P.V. Siddhu, A. Subhakar, D. Devender Rao, T.T.	0	
Srichandan, S. Harilingam, V.V. Mahesh Kumar, I.	2. Health Surveillance and Industrial prosperity - a	
Kiran Kumar, Sudhir Thakur, Nuclear Fuel	retrospective analysis at Tarapur Maharashtra	
Complex, Hyderabad	Site (TMS) – Dr. P.K.Yadav, Dr.(Mrs.)	
2. Case Study on Enhancement of Electrical Safety	M.S.Daniel, Dr. Sweta Agrawal, Kalpana Devi	
of a Staff Bus by Preventing Electric Short Circuit	3. Lasers in Ophthalmology – Dr. Anjali Godse,	
on Mechanical (Fuel Modulation) Lever Failure –	MO, Dr. Hemant Haldvanekar, OHC Trombay,	
E. Thanigaivel, B. Rajesh, GSO, IGCAR,	BARC	
Kalpakkam	B/ (I/C)	
raipainain	4. Evaluation & Treatment of Erectile Dysfunction	
3. High Power Density Systems Used in Advanced	(Especially in Diabetic Patients) - Dr Ajay Dubey,	
Metallurgical Applications and Safety Aspects -	Medical Officer, KKNPP, NPCIL	
K.V. Mirji and N. Ramesh, Nuclear Fuel Complex,	, , ,	
Hyderabad	5. Specific Types of Diabetes (LADA & MODY) -	
·	Dr Ajay Dubey, Medical Officer, KKNPP, NPCIL	
4. High Voltage Discharge Switch for operational		
safety of Neutral Beam High Voltage Power		
Supply System - L.N. Gupta, Paresh Patel, C.B.		
Sumod, Dipal Thakkar, N.P. Singh, Ujjwal Baruah,		
Institute for Plasma Research, Gandhinagar		
5. Safety aspects in Particle Irradiation Facility-		
Dharmendra Singh, P. Magudapathy, S.		
Kandaswamy, IGCAR, Kalpakkam		
O Outst and Outstand Assessed to 1.0%		
6. Safety and Operational Aspects in In-Situ		
Electrical Baking of Large Vacuum Systems of		
Indus Accelerators – Prateek Bhatnagar, Nilesh Bhange, Sujata Joshi, R. Sridhar, RRCAT, Indore		
Briange, Sujata Joshi, R. Shuhar, RRCAT, muore		

Laboratory Visit (1800 Hrs. - 1900 Hrs.)

Dinner (1930Hrs ONWARDS)

Day 3: NOVEMBER 25, 2016 (Friday)

Plenary Session III - (0900 Hrs. - 1100 Hrs.)

Contributory papers on "Industrial Safety & Occupational Health"

Chair Panel:

- 1. Shri S. Thakur, GM(S,HPU,TLD & EPC), NFC
- Shri K. S. Ramprasad, Head, RMS, R&DD, AERB
- 1. Lead Talk on "Occupational Hazards with Experimental High Voltage Systems" Dr. Ujjwal Kumar Baruah, Engineer-H, Institute for Plasma Research, Gandhinagar
- Laser Safety A Growing Concern Ms. Swati Jadav, Sure Safety, Vadodara
- Stress and Work Life Dr. D. M. Pestonjee, Chair Professor (GSPL), School of Petroleum Management, PDPU, Gandhinagar
- 4. Hyperlipidemia Dr. P.T.V. Nair, Former Head, Medical Division, BARC & Chairman ACOH

Tea (1100Hrs - 1130 Hrs)

Valedictory Session – (1130 Hrs. – 1300 Hrs.)

Chair Panel:

- Shri D. K. Shukla, Distinguished Scientist, Executive Director, AERB
- Shri K. S. Ramprasad, Head, RMS, R&DD, AERB

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	Briefing on Parallel Session I & II: Safety Professionals & Occupational Health Professionals
	Briefing on POSTER Session
	Presentations by Exhibitors
	Prize Distribution for Winners of Various Competitions
	Feedback on 33 rd DAE Safety & Occupational Health Professionals Meet
	Felicitations
	Venue & Theme: 34 th DAE Safety & Occupational Health Professionals Meet

Lunch (1300 Hrs to 1400 Hrs) 1415 hrs -Onwards ----- Sight Seeing

PAPERS FOR POSTER PRESENTATION:

Poster No.	Title of Paper with authors details
PP-1	Fire and Explosion Prevention in Nuclear Power Stations – R. Suresh Kumar, R Y Khasnis, M P Hansora, NPCIL
PP-2	HVWS Fire Protection System for power Transformer at 132 KV Sub-Station – Prakash Parmar,
PF-2	Institute for Plasma Research, Gandhinagar
PP-3	Importance of Composition of Material – Insight of an unusual occurrence during decontamination of solid radioactive waste – B. Haldar, R Jaycee, R S Amborkar, K Mahesh Babu, V V Mahesh Kumar, Sudhir Thakur, NFC, Hyderabad
PP-4	Physical Hazards (Noise, Heat, Vibration, Illumination) – Control at Work Place, Methods and Strategies – M. Bose, P. Srivastava,, BRIT, Mumbai
PP-5	Recent Advances in MEMs Radiation Detectors for improving Radiation Safety in Nuclear Reactors – Abhay Bhisikar, RRCAT, Indore
PP-6	Safety Legislation and Regulations for Electron Beam Welding – Gautam Vadolia, K P Singh, D.V. Modi, Institute for Plasma Research, Gandhinagar
PP-7	Case Study on Human Error Techniques – V K Sehgal, NPCIL, Mumbai
PP-8	Safety Management System during Rock Blasting at FRFCF Construction Site – Vijayakumaran C, Kandasamy S, Satpathy K K, IGCAR, Kalpakkam
PP-9	Safety Management and Safe Handling of Materials in Lithium Ceramic Development Process – Mayank Makwana, P Patel, M Panchal, B. Riscob, A. Srivastava, P Chaudhari, Institute for Plasma Research, Gandhinagar
PP-10	Safety Management in Research and Development Organisation – T Nivedha, IGCAR, Kalpakkam
PP-11	Safety and Shielding Management for Pulse Power Laboratory at IPR – Shweta Upadhyay, Akash Fldu, Rahul Koshti, Rajesh Kumar, Institute for Plasma Research, Gandhinagar
PP-12	Safety Aspects in a Chemical Exchange Process Plant – B K Sharma, IGCAR, Kalpakkam
PP-13	Regulatory Role & Approach of BARC Safety Council in Safety & Occupational Health in BARC - Shri Rajdeep, Scientific Officer-G,BARC Safety Council Secretariat
PP-14	Health and Safety Management for Confined Space Work – Jayaprakash Hegde, R Y Khasnis, M P Hansora KGS 3&4, NPCIL