



6th Asian and Oceanic Congress for Radiation Protection (AOCRP6)

on

**“Radiation Protection and Surveillance in Nuclear,
Medical, Industrial Facilities and the Environment”**

7-11 February 2023

Programme Schedule

Organized by

**Asian and Oceanic Association for Radiation Protection
(AOARP)**

Hosted by

Indian Association for Radiation Protection (IARP)

**Nehru Centre, Worli
Mumbai, India**

Tentative timetable for the programme as on February 02, 2023

Monday 6 February 2023

Venue: Hotel Ambassador

Time	Session	Session Title / Break
14:00-17:00		IRPA Associate Societies (AS) Forum* <i>Representatives of Asia and Oceania AS and invited people. EOI for those who wish to start an IRPA AS in their country.</i>
18:00-19:00		AOARP Executive Council meeting* <i>AOARP Executive Council members or proxies</i>

*** - Participation by invitation**

Tuesday 7 February 2023

Venue: Nehru Centre Auditorium, Worli

Time	Session	Session Title / Break
08:00-09:45		Registration and distribution of conference material
10:00-11:30	Inaugural	Inauguration Function
10:00-10:10		Welcome Address by Dr M S Kulkarni, Convener, AOCRP6 & Head, HPD, BARC
10:10-10:20		Address by Dr D K Aswal, Director, HS&EG, BARC
10:20-10:30		Address by Dr B Venkataraman, Chair, AOCRP6 & Director, IGCAR
10:30-10:45		Address by Chief Guest, Mr D K Shukla, Chairman, AERB
10:45-11:05		Address by Guest of Honour, Dr Bernard Le Guen, President, IRPA
11:05-11:15		Release of Book of Abstracts and Souvenir
11:15-11:25		Distribution of IARP awards
11:25-11:30		Vote of Thanks by Dr S Murali, Co-Convener, AOCRP6
11:30-12:00		High Tea
12:00-12:30		Inauguration of Trade Exhibition and Posters (Hall of Knowledge, GF, Nehru Centre)
12:30-13:30	1	Oration Lectures – Chair: Dr D K Aswal, Director, HSEG, BARC
12:30-13:00		Dr A K Ganguly Memorial Oration Talk
13:00-13:30		Dr K G Vohra Memorial Oration Talk
13:30-14:30		Lunch
14:30-16:00	2	ICRP Workshop on the Review and Revision of the System of Radiological Protection Chair: Dr Bernard Le Guen, IRPA (Hybrid mode)
14:30-14:45		IT 1: Introduction to ICRP, Dr Christopher Clement, ICRP Scientific Secretary & CEO
14:45-15:15		IT 2: Review and Revision of the System of RP, Dr Werner Rühm, ICRP Chair
15:15-15:40		IT 3: Views of IARP on the System of RP, Dr M S Kulkarni, BARC & ICRP Committee 2
15:40-16:00		IT 4: Presentation from AOARP Associate Members, Dr Michiya Sasaki, JHPS
16:00-16:20		Afternoon Refreshments Visit to Trade Exhibition & Posters, Hall of Knowledge, GF, Nehru Centre
16:20-18:00	3	ICRP Workshop on the Review and Revision of the System of Radiological Protection Chairs: IAEA/ IARP/ AOARP (Hybrid mode)
16:20-16:40		IT 5: Review of the System: Need for stability keeping the pillars and supporting efforts to clarify its implementation (pre-recorded presentation), Dr Miroslav Pinak, Olvido Guzman, IAEA
16:40-17:00		IT 6: ICRP TG114 Reasonableness and Tolerability in the System of RP, Dr Thierry Schneider, ICRP Main Commission Member, ICRP Committee 4 Chair, ICRP Task Group 114 Chair
17:00-18:00		Panel Discussion on Reasonableness and Tolerability (with introductory remarks, 3 min each), Dr Cameron Jeffries, ARPS • Dr M S Kulkarni, IARP • Dr Michiya Sasaki, JHPS • Dr Bernard le Guen, IRPA Moderated by Dr <i>Thierry Schneider</i>
19:00-20:00		Cultural program
20:00-22:00		Dinner

IT - Invited Talk; OP – Oral/Platform Presentation; RC - Refresher Course

Wednesday 8 February 2023; Venue: Nehru Centre, Worli

Time	Session	Session Title / Break Venue: Hall of Culture, Ground floor	Session	Session Title / Break Venue: Hall of Harmony, Ground floor
08:45-09:45	RC-1	The Augmented Role of the Medical Physicist in Radiation Emergencies, Dr Brad Cassels, Australia	RC-2	NORM, Dr Jim Hondras, Australia
10:00-11:30	4A	Radiation Protection Philosophy and Risk Estimates Chairs: Dr Christopher Clement, ICRP; Dr T K Ghanty, BARC	4B	Radiation Safety and Protection in Nuclear Facilities Chairs: Dr Ola Holmberg, IAEA; Dr A K Bakshi, BARC
10:00-10:30 10:30-11:30		<p>IT 7 (25 min): 14556, Dr Hiroko Yoshida, Japan, "IRPA Task Group for communications and engagement with the public on radiation and risk"</p> <p>3 OP (10 min each)</p> <ol style="list-style-type: none"> 11601, Roha Tukimin, Malaysia, A Profile Study on Electromagnetic Fields Radiation from 5G Radio Base Station in Kuala Lumpur 11250, Yang Xue, China, Application of occupational health risk assessment in a radioactive waste treatment facility 13361, Sreekanth, BARC, India, Effect of aerosol particle size distribution on the radiological impact assessment of Radiological Dispersal Device detonations Rapporteur of posters 		<p>IT 8 (25 min): Mr Venkataramana, NPCIL, "Radiation safety in Indian nuclear power plants"</p> <p>4 OP (10 min each)</p> <ol style="list-style-type: none"> 22184, Rashmi Prakash Sharma, India, NPCIL, Development of Radiological Safety Performance Indicators (RSPIs) 24157, Michiya Sasaki, Japan, CRIEPI, Quantitative evaluation of conservatism included in parameter settings for clearance level calculations: A Case Study in Japan 21296, A H Khan, India, Ex-BARC, Evolution of radiological monitoring systems and methodologies in Indian uranium mining industry: A historical perspective 23371, P T Ghare, India, BARC, Radiological safety challenges during Hotcell decontamination, cleaning & reinstallation of radiation shielding glass windows of a hotcell facility Rapporteur of posters
11:30-11:45		<p>Tea Break</p> <p>Visit to Trade Exhibitions & Poster Display</p>		
11:45-13:15	5A	Radiation Protection Philosophy and Risk Estimates Chairs: Dr Christopher Clement, ICRP; Dr T K Ghanty, BARC	5B	Radiation Safety and Protection in Nuclear Facilities Chairs: Dr Ola Holmberg, IAEA; Dr A K Bakshi, BARC
11:45-12:15 12:15-13:15		<p>IT 9 (25 min): Dr Bernard Le Guen, IRPA</p> <p>4 OP (10 min each)</p> <ol style="list-style-type: none"> 16573, Vandana Pulhani, Concentration ratio of ⁹⁰Sr and Dose to Earthworm from Tropical region 11364, Nilamadhab Prasad, IGCAR, Effect of ionizing radiation on cellular stress, immunity and lifespan of common fruit fly 12572, Praveen, VOC College, India, Natural radiation dose to the marine mollusc Sepia pharaonis and assessment of radiological risk 11254, Jixia Han, China, Experimental Study on radio-adaptive response of Immune System Induced by Ionizing Radiation Rapporteur of posters 		<p>IT 10 (30 min): 1. Dr Borislava, UNSCEAR, "UNSCEAR ongoing and planned activities" -pre-recorded presentation on the New Data Collection Strategy, the Public exposure evaluation and international collaboration.</p> <p>2. Mr Peter Hofvander, UNSCEAR, "Evaluation of occupational exposure to ionizing radiation" - pre-recorded presentation</p> <p>4 OP (10 min each)</p> <ol style="list-style-type: none"> 23194, Ganesh G, India, BARC, Particle size distribution characteristics of cesium nitrate, strontium nitrate and standard test aerosols 23327, V Ramprasath, India, BARC, Study on the response of beta particulate monitor for Krypton-85 23176, Dhanasekaran A, India, IGCAR, Airborne radioactivity concentration measurement in CORAL reprocessing facility during off ventilation condition 22216, Ren Hongzheng, China, CIRP, Preliminary experimental study on wet electrostatic technology for methyl iodine capturing Rapporteur of posters

13:15-14:15		Lunch Break Trade Exhibitions & Poster Display		
14:15-15:45	6A	Radiation Safety & Protection in Medical and Industrial Sectors Chairs: Dr Brad Cassels, Australia; Ms Rupali Pal, BARC	6B	Radiation Safety and Protection in Nuclear Facilities Chairs: Dr Thierry Schneider, ICRP; Dr S Anand, BARC
14:15-14:45 14:45-15:45		IT 11 (25 min): Dr Ola Holmberg, IAEA, "Incident prevention in radiotherapy using the updated SAFRON system" <i>4 OP (10 min each)</i> 1. 31105, Sanjay Kumar Saxena, India, BARC, Radiation Protection in Fabrication, Clinical Deployment and Safe Management of I-125 and P-32 Brachytherapy Sources 2. 34301, Kamaldeep, India, BARC, ^{177m} Lu as an impurity in a direct-route ¹⁷⁷ Lu: implications for patients' dosimetry in Peptide Receptor Radionuclide Therapy. 3. 34443, Rajesh Kumar, India, BARC, Dosimetry of Indigenously Developed Round type ¹⁰⁶ Ru Eye Plaque 4. 73268, Sandipan Dawn, India, Investigation of LET spectra at Low Earth Orbit by Monte Carlo simulations 5. Presentation by trade delegates - Dr Massimo Morichi, President of CAEN SYS, Italy		IT 12 (25 min): Mr. Zhiwen Fan, IAEA, "Enhancing safety in decommissioning, remediation, and management of NORM residues" <i>4 OP (10 min each)</i> 1. 22595, Kondala Rao R, India, IGCAR, Development and validation of a discrete ordinate method based neutron transport model for criticality safety and shielding analysis in nuclear facilities 2. 23370, K S Varshitha, BARC, India, Estimation of skin dose and deep dose equivalents due to exposure situations during handling of uranium 3. 24278, Praveen Kumar, BARC, India, AQUADOS: An indigenously developed code for carrying out radiological safety assessment of aquatic releases 4. 25503, Tanmay Sarkar, BARC, India, Inhalation hazard of radioactive aerosol generated from dismantling operation of in-core structural components during decommissioning of PHWR 5. Presentation by trade delegates
15:45-16:00		Tea Break Visit to Trade Exhibitions & Poster Display		
16:00-17:00		Poster Session		
17:00-18:30	7A	Radiation Safety & Protection in Medical and Industrial Sectors Chairs: Dr Brad Cassels, Australia; Ms Rupali Pal, BARC	7B	Nuclear Instrumentation and System Development Chairs: Dr D K Aswal, BARC; Dr D D Rao, Ex-BARC
17:00-17:30 17:30-18:30		IT 13 (25 min): Dr Dayanand Sharma, Apollo hospital, Chennai, "Radiation safety and protection in a proton beam therapy facility" <i>4 OP (10 min each)</i> 1. 32529, R Ravishankar, India, BARC-VECC, Radiation Protection in Positive Ion beam Accelerator Facilities 2. 32227, Dilip Kumar Gupta, India, RRCAT, Experimental determination of radiation source term during the operation of 150 TW Laser Plasma Accelerator Facility 3. 32445, Raksha Rajput, India, BRIT, Dose Uniformity evaluations for Gamma Radiation Processing Facility (GRAPF) using Monte Carlo simulations and its validation 4. 35299, Amit Kumar, India, IGCAR, A review on sterilization of various types of facemasks by ionizing radiation 5. Rapporteur of posters		IT 14 25 min: Mr Debashish Das, Ex-Director, RRCAT, "Nuclear instrumentation systems for reactors and installations – An overview" <i>4 OP (10 min each)</i> 1. 51441, Ashutosh Gupta, BARC, India, Development of Advanced Compact Radiation Monitoring System (ACRMS) 2. 51565, E P Amaladass, India, IGCAR, Development of a portable gamma radiation spectrometer using indigenously grown CdZnTe single crystals 3. 51515, C N Sunil, BARCF, India, NaI(Tl) based On-Line Stack Monitor to measure ¹³³ Xe in presence of ⁴¹ Ar 4. 51257, Binqing Zhao, China, Songshan Lake Materials Laboratory, Development and Performance of a MAPMT-based Neutron Detector System using Waveform Digitizer 5. Rapporteur of posters

Thursday 9 February 2023; Venue: Nehru Centre, Worli

Time	Session	Session Title / Break Venue: Hall of Culture, Ground floor	Session	Session Title / Break Venue: Hall of Harmony, Ground floor
08:45-09:45	RC-3	Human exposure to non-ionising radiation, Dr Roha Binti Tukimin, MARPA, Malaysia	RC-4	Radiation dosimetry (External, internal and biological), Dr M S Kulkarni, BARC, India
10:00-11:30	8A	Radiation Dosimetry (External, Internal and Biological) Chairs: Dr Dayanand Sharma, Apollo Hospital; Dr Pramilla Sawant, BARC	8B	Radiation Safety and Protection in Nuclear Facilities Chairs: Dr Werner Ruhm, ICRP; Dr S Anand, BARC
10:00-10:30 10:30-11:30		IT 15: 25 min: 42140, Dr Kentaro Manabe, Japan, JAEA, "Internal dose calculation code in line with the ICRP 2007 recommendations" 3 OP (10 min each) 1. 41274, T K Srinivasan, India, IGCAR, Gamma Spectrometry of KAMINI reactor coolant lines 2. 41506, Rupali Pal, BARC, India, Neutron dose measurements using a wide range novel combination neutron dosimeter (CND) at CERF facility, CERN 3. 42116, Lokpati Mishra, India, BARC, Estimation of positional errors in direct measurement of ²⁴¹ Am in axillary lymph nodes 4. Rapporteur of posters		IT 16: 25 min: 23500, Dr S K Jha, India, BARC, "Radiological perspective for the utilization of uranium mill tailings" IT 17: 25 min: Dr Shenlin Liu, CSRP, China, "The Research on radiation dose level in China" 3 OP (10 min each) 1. 22166, Veerendra Danannavar, India, NPCIL, Review of collective dose consumption in Indian PHWR-A case study of Kaiga Generating Station-3&4 2. 22203, Lokesh Kumar, BARC, India, Removal of ¹³⁷ Cs from spent fuel storage bay water using Zeolite 3. 23406, Letha Sebastian, BARC facilities, India, Study on Tritium Concentration in Low Level Liquid Waste of a Fuel Reprocessing Plant 4. Rapporteur of posters
11:30-11:45		Tea Break Trade Exhibitions & Poster Display		
11:45-13:15	9A	Radiation Dosimetry (External, Internal and Biological) Chairs: Dr Dayanand Sharma, Apollo Hospital; Dr Pramilla Sawant, BARC	9B	Radiation Safety and Protection in Nuclear Facilities Chairs: Dr Thierry Schneider, ICRP; Dr S K Jha, BARC
11:45-12:15 12:15-13:15		IT 18: 25 min: 43524, Dr Munehiko Kowatari, Japan, QST, "Investigation on dosimetric issues about high-dose inhomogeneous radiation accidents: evaluation of effective dose and organ doses" – Pre-recorded presentation 4 OP (10 min each) 1. 42232, H K Patni, India, BARC, In-vivo monitoring for a novel radionuclide 2. 42234, Vandana P Ghare, India, BARC, Estimation of retained fractions of ¹³¹ I during pregnancy 3. 42266, Minal Y Nadar, India, BARC, Uncertainty in the estimation of Intake of Actinides due to unknown time of intake 4. 42259, Charubala, India, BARC, Calibration Coefficients for Monitoring of Uranium and Thorium in Lungs 5. Rapporteur of posters		IT 19: 25 min: 71599, Dr Cameron Jeffries, Australia, "Radon survey in a healthcare facility" 4 OP (10 min each) 1. 15610, Lyu Minghua et al., CIRP, Nuclear accident consequence assessment technology research and software development 2. 74280, K Sreekumar, India, BARC, Natural High Background Radiation Areas of Western Coast of Kerala and Tamil Nadu; A Brief Report 3. 61318, Samim Molla, India, BARC, Distribution of ²²⁶ Ra and ²¹⁰ Po in groundwater around uranium mining, milling, and tailings management site at Turamdih, Jharkhand 4. 21235, Jaison, BARC, India, A Decade of Radiological Monitoring at Beach Sand Mineral Separation plant Chavara 5. Rapporteur of posters

13:15-14:15		Lunch Break	
		Trade Exhibitions & Poster Display	
14:15-15:45	10A	Radiation Dosimetry (External, Internal and Biological) Chairs: Dr Cameron Jeffries, Australia; Dr Jim Hondros, Australia	10B Nuclear Instrumentation and System Development Chairs: Dr D A R Babu, Ex-BARC; Dr S Chandrasekhar, IGCAR
14:15-14:45 14:45-15:45		IT 20: 25 min: Dr M S Kulkarni, BARC, "Technological evolution of dosimetry practices in India" <i>4 OP (10 min each)</i> <ol style="list-style-type: none"> 45139, A Ashok Kumar, India, Manonmaniam Sundaranar University, Beach sand Quartz as a retrospective dosimeter 45286, Yamaguchi Ichiro, Japan, Can non-destructive EPR tooth dosimetry be used for posterior assessment of radiation exposure in medicine and dentistry? 45600, Rajesh Chaurasia, India, BARC, Deciphering impression of high LET radiation (14 MeV DT-neutron and Am-α) on lymphocyte chromosome: Application of multiplex and multi-BAND-FISH 44298, Rohit, India, BARC, Simulation based estimation of dosimetric quantities for ICRP computational and CIRS phantoms due to galactic cosmic rays at LEO Presentation by trade delegates 	IT 21: 25 min: Mr Probal Chaudhury, BARC, "Aerial Gamma Spectrometry system for rapid assessment during emergency" <i>4 OP (10 min each)</i> <ol style="list-style-type: none"> 55237, Biswajit Sadhu, BARC, India, Finding Time-efficient Optimized Pathway with Minimum Radiation Exposure using Deep Reinforcement Learning 51512, Riya Dey, BARC, India, Rapid optimisation of BEGe detector geometry by establishing an empirical formula for full energy peak efficiency using Monte Carlo simulation and machine learning algorithm 51358, Amit Silswal, BARC, India, Source Term Estimation using Particle Filter Algorithm based on Dose Rate 52211, Vivek Kaushik, BARC, India, Simulation of peak tailing in alpha spectrometry based air monitor with collimator using Geant4 Presentation by trade delegates – Nucleonix Systems Pvt. Ltd.
15:45-16:00		Tea Break	
		Trade Exhibitions & Poster Display	
16:00-17:00		Poster Session	
17:00-18:30	11A	Environmental Monitoring and Assessment Chairs: Dr C V Srinivas, IGCAR; Dr A Baburajan, BARC	11B Nuclear Instrumentation and System Development Chairs: Mr. G Ganesh, BARC; Dr V Subramanian, IGCAR
17:00-17:30 17:30-18:30		IT 22: 25 min: 24604, Dr Brad Cassels, Australia, "Consideration of a new technology for the large scale clean-up of Fukushima wastes" <i>4 OP (10 min each)</i> <ol style="list-style-type: none"> 61440, T K Reji, BARC, India, TFWT and OBT concentration in Fresh Water Fishes at Kadra Reservoir 61386, Deepak Kumar, BARC, India, Assessment of soil to wheat transfer factor and discrimination factor around NAPS Narora and GHAVP Haryana, two NPP site of Northern India 65580, Rashmi Nayak S, CARER, MU, India, Dose due to the ingestion of NE-OBT in the vicinity of Kaiga Nuclear Power Plant 63368, Sugandhi Suresh, BARC, India, Assessment of ingestion dose to members of public from marine biota Rapporteur of posters 	IT 23: 25 min: 51460, Dr S Chandrasekaran, IGCAR, "Development of automated delayed neutron coincidence system for special nuclear material detection" <i>3 OP (10 min each)</i> <ol style="list-style-type: none"> 51178, Yuvaraj N, IGCAR, India, Y2O3 Loaded Plastic Scintillators For Radiation Detection 54294, Anilkumar S Pillai, BARC, India, Parametric Optimisation of BEGe detector for Efficiency Calibration by Simulation 54490, Akila R, India, Gamma Assay of structural material samples irradiated in Fast Breeder Test Reactor with high dose rate using LaBr(Ce) Rapporteur of posters

Friday 10 February 2023; Venue: Nehru Centre, Worli

Time	Session	Session Title / Break Venue: Hall of Culture, Ground floor	Session	Session Title / Break Venue: Hall of Harmony, Ground floor
08:45-09:45	RC-5	Ion beam dosimetry, Dr Dayanand Sharma, Apollo Hospital, Chennai	RC-6	Emergency Preparedness and Response, Dr Thierry Schneider, ICRP
10:00-11:30	12A	Environmental Monitoring and Assessment Chairs: Dr Hiroko Yoshida, Japan; Dr Vandana Pulhani, BARC	12B	Radiation Standards and Metrology Chairs: Mr S B Chafle, ED, AERB; Dr D D Rao, Ex-BARC
10:00-10:30 10:30-11:30		IT 24: 25 min: 61159, Dr Rina Sato, Japan, "Environmental radiation monitoring after the Fukushima NPP accident" 4 OP (10 min each) 1. 61189, Kotaro Ochi, Japan, Environmental radiation monitoring after the Fukushima NPP accident (1) Characteristics of soil penetration of deposited radiocesium 2. 61191, Tomohisa Abe, Japan, Environmental radiation monitoring after the Fukushima NPP accident (2) Long-term monitoring of atmospheric radiocesium concentrations 3. 61161, Toshiharu Misonou, Japan, Environmental radiation monitoring after the Fukushima NPP accident (3) Sediment discharge from river to coastal area 4. 61137, Fumiya Nagao, Japan, Environmental radiation monitoring after the Fukushima NPP accident (5) Database for Radioactive Substance Monitoring Data 5. Rapporteur of posters		IT 25: 25 min: Dr D Ponraju, IGCAR, "Environmental monitoring and assessment at DAE complex of Kalpakkam" 4 OP (10 min each) 1. 33121, Ritu Sharma, Development and characterisation of standard 241Am sources 2. 33344, Shobha Ghodke, Evaluation of microdosimetric quantities of 252Cf source using inhouse developed cylindrical TEPC 3. 51206, S P Tripathy, BARC, India, Development of a multi-shell moderating assembly for neutron spectrometry in particle accelerators: Generation of response matrix with Au foils as detectors 4. 53583, Vijayalakshmi I, IGCAR, India, Study on Variation of Efficiency with Various Matrices and Detectors 5. Rapporteur of posters
11:30-11:45		Tea Break Trade Exhibitions & Poster Display		
11:45-13:15	13A	Environmental Monitoring and Assessment Chairs: Dr Hiroko Yoshida, Japan; Mr JPN Pandey, BARC	13B	Existing Exposures Chairs: Dr Cameron Jeffries, Australia; Dr S Chitra, BARC
11:45-12:15 12:15-13:15		IT 26: 25 min; Ms Jaqueline Calabria, IAEA, "The IAEA MEREIA programme: Building capacity in methodologies for taking a holistic approach to radiological and environmental impact assessment", Pre-recorded presentation 4 OP (10 min each) 1. 63110, Roopashree Shrivastava, STEPS: A Tool to Forecast Meteorological Variables on a Short Time Scale 2. 63547, Shanu Karmakar, IGCAR, India, Sensitivity of Horizontal Resolution, Land-Use/Land-Cover, Land Surface Model and Boundary Layer physics in operational WRF Simulations in Online Nuclear Emergency Response System (ONERS) 3. 61504, K Swetha, HBNI, Reactive transport simulation in groundwater using local radial point interpolation meshless method 4. 63422, Dipan Kundu, Development of Kalman Filter based source term estimation method and its testing using observed dose rates 5. Rapporteur of posters		IT 27: 25 min: 74187, Dr Jim Hondros, Australia, "The IRPA NORM Task Group - Recent and future activities" 4 OP (10 min each) 1. Ms Olvido Guzmán López Ocón, IAEA, "Presentation of a New Safety Guide on Existing Exposure Situations" (Pre-recorded presentation) 2. 71158, Sangrok Kim, Korea, Measurement of Radon Removal Amount of Activated Carbon 3. 71404, Rajeswari P Rout, India, Estimation of Dose Conversion Factor of thoron progeny using ICRP 130 HRT model 4. 74162, Karolin Mary F S, India, Estimation of natural radioactivity in granite used as building materials in Kanyakumari District, Tamil Nadu, India 5. Rapporteur of posters

13:15-14:15		Lunch Break Trade Exhibitions & Poster Display		
14:15-15:45	14A	Environmental Monitoring and Assessment Chairs: Dr D Ponraju, IGCAR; Mr I V Saradhi, BARC	14B	Emergency Preparedness and Response Chairs: Mr Probal Chaudhury, BARC; Dr S Murali, BARC
14:15-14:45 14:45-15:45		<p>IT 28: 25 min: Dr A Vinod Kumar, BARC, “Environmental and radioactivity surveillance around nuclear facilities in India”</p> <p><i>4 OP (10 min each)</i></p> <ol style="list-style-type: none"> 61437, Aditi C Patra, Uranium association with minerals in mining wastes: Influence on mobility 61379, Y P Gautam, Atmospheric ³H Impact assessment (2011-2021) around Narora Atomic Power Station 61568, Yashodhara I, Activity concentrations of ⁷Be, ⁴⁰K, ²³²Th, ²²⁶Ra, and ²¹⁰Pb in air samples of uranium mineralized region in North Karnataka, India 61374, Thulasi Brindha, BARC, India, Levels of Tritium in various environmental compartments at Kalpakkam Presentation by trade delegates – Dassault Systemes India Pvt. Ltd. 		<p>IT 29: 25 min: Dr Zhanat Carr, WHO, “Radiation Emergencies”, (Pre-recorded presentation)</p> <p>IT 30: 20 min: 63494, Dr C V Srinivas, IGCAR, “Spatial ingestion dose estimation based on remote sensing derived land use/ land cover data for emergency response”</p> <p><i>3 OP (10 min each)</i></p> <ol style="list-style-type: none"> 81468, S P Lakshmanan, AERB, Evolution of a Performance based Emergency Exercise Methodology for Effectively Testing Preparedness for Emergency Response 81480, S K Pawar, AERB, Current Regulatory Requirements and Guidance on Emergency Preparedness for Management Nuclear Emergency in India 82262, Pradeep Bhargava, India, Methodology for estimation of Emergency Planning Zone using deterministic methods for the 220 MWe PHWRs Presentation by trade delegates
15:45-16:00		Tea Break Trade Exhibitions & Poster Display		
16:00-17:00		Poster Session		
17:00-18:30	15A	Environmental Monitoring and Assessment Chairs: Dr A Vinod Kumar, BARC; Mr I V Saradhi, BARC	15B	Regulatory Framework: System of Protection, Standards and Regulation Chairs: Mr Zhiwen Fan, IAEA, Dr S Murali, BARC
17:00-17:30 17:30-18:30		<p>IT 31: 25 min; Dr N Karunakara, Mangalore University, “Carbon-14 specific activity in the vicinity of the PHWR nuclear power plant at Kaiga, India”</p> <p><i>3 OP (10 min each)</i></p> <ol style="list-style-type: none"> 63485, Sujatha P N, IGCAR, India, A study on aerodynamic roughness lengths at Kalpakkam tropical coastal station, India using micrometeorological observations 61375, A Baburajan, BARC, India, Environmental Impact of different forms of Tritium (HTO, TFWT, and OBT) at Tarapur 16356, A K Patra, BARC, India, Studies on Radiological Dose to aquatic weed at Kakrapar Atomic Power Station site using ERICA Integrated Approach Rapporteur of posters 		<p>IT 32: 25 min: Mr S B Chafle, ED, AERB, “Radiation safety and regulatory aspects in radiation facilities”</p> <p><i>4 OP (10 min each)</i></p> <ol style="list-style-type: none"> 92428: Jaydeb Manda, Regulatory Review of Radiation Safety Aspects of 700 MWe KAPP-3 Commissioning for improvement in Radiation Safety Aspects in Upcoming 700 MWe NPPs 92418: Jolly Joseph K, India, Legal, Regulatory and Technical aspects of Exemption and Clearance of Source (Radioactive materials or Radiation Generating Equipment) in India 92477, Hee-Seock Lee, Korea, Proposal of Regulation Framework for Large-scale Particle Accelerator and Legislation in the Korean Nuclear Safety Act 96224, Garima Singh, India, Evaluation of Whole body Vibration and Assessment of Degree of Comfort Rapporteur of posters

Saturday 11 February 2023; Venue: Nehru Centre, Worli

Time	Session	Session Title / Break Venue: Nehru Centre Auditorium
09:15-11:00	16	<p>IRPA Young Generation Network (IRPA-YGN) (Hybrid mode) * Open to those interested in IRPA-YGN Chair: Takahiko Kono (Japan) Co-Chair: Rui Qiu (China), Christy Mae T. Betos (Philippines), Riya Dey (India)</p> <ul style="list-style-type: none"> • Welcome Remarks • Introduction of the session - Takahiko Kono • Report from IRPA YGN - Sylvain Andresz • Report from young professionals <ul style="list-style-type: none"> ○ Japanese YGN – Takahiko Kono ○ Korean YGN - Yeon Soo Yeom ○ Chinese YGN – Bing Lian ○ Indian professional – Riya Dey ○ Philippines professional – Christy Mae T. Betos • Panel discussion • Closing Remarks
11:00-11:30		Tea Break
11:30-12:30	17	<p>Panel Discussion (Dr Werner Ruhm, Mr D K Shukla, Dr Ola Holmberg, Dr Bernard Le Guen, Dr B Venkataraman) “Radiological Protection of People and the Environment: Future Perspectives”</p>
12:30-13:00	18	<p>Declaration of best paper and poster awards</p> <p>AOCR-7 Announcement</p>
13:00-14:00		Lunch