

**List of accepted papers for IARPNC-2020 (Oral Presentation)**

<b>Paper Id.</b>	<b>Authors</b>	<b>Title</b>	<b>Department</b>	<b>E-mail</b>
P4	S.P. Lakshmanan, RituRaj, Krishna Reddy, S.K. Dubey and J Koley	Development of Protection Strategy for Early Phase of Nuclear Emergency	Directorate of Radiation Protection and Environment, Atomic Energy Regulatory Board	<a href="mailto:spl@aerb.gov.in">spl@aerb.gov.in</a>
P6	S.Pattanayak <sup>1</sup> , A. Kumar <sup>2</sup>	Laser assisted decontamination of contaminated metallic object	Health Physics Division, Bhabha Atomic Research Centre, Tarapur- 401502, India Fuel Fabrication, Nuclear Recycle Board, Bhabha Atomic Research Centre, Tarapur – 401502, India	<a href="mailto:spattanayak@barctara.gov.in">spattanayak@barctara.gov.in</a>
P8	S.K. Dubey <sup>1</sup> , N. Khandenwal <sup>1</sup> , S. Sinha <sup>2</sup> , and J. Koley <sup>1</sup>	Review on New Dose Conversion Factors for Radon and Thoron	1-Directorate of Radiation Protection and Environment (DRP&E), 2-Directorate of Regulatory Affairs and Communication, Atomic Energy Regulatory Board, Anushaktinagar, Mumbai, India- 400094	<a href="mailto:skdubey@aerb.gov.in">skdubey@aerb.gov.in</a>
P15	N. Yuvaraj, D. Karthikeyan, S .Dheeraj, R. Arun, A. Dhanasekaran, K.C.Ajoy, R. Santhanam, S. Chandrasekaran and M.T.Jose	Health Physics Surveillance during In-Service Inspection of CORAL Waste Tank Farm	Radiation Safety section, Health and Industrial Safety Division, Indira Gandhi centre for Atomic Research, Kalpakkam 603102, India	<a href="mailto:yuva@igcar.gov.in">yuva@igcar.gov.in</a>
P18	Soumyajit Chakraborty, 2M. Madhu, 1Anita Topkar	ANUSUCHAK: A Gamma Dongle for Real-time Detection of Elevated Levels of Gamma Radiation:	Electronics Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085 2 Radiation Detectors and Instrumentation, Electronics Corporation India Limited, Hyderabad, 500062	<a href="mailto:anita@barc.gov.in">anita@barc.gov.in</a>
P19	Aswathi Raj <sup>1,2</sup> , D. Khanna <sup>1</sup> , Hridya V T <sup>1,2</sup> ,	A Dosimetric study in the effect of relative position of secondary jaws from a Multi leaf Collimator.	<sup>1</sup> Department of Physics, Karunya Institute of Technology and Sciences, Coimbatore. <sup>2</sup> Department of Oncology, Aster MIMS, Calicut	<a href="mailto:aswathirajsgm@gmail.com">aswathirajsgm@gmail.com</a>
P20	D.K.Pandey , Pankaj Kumar, J. P. N. Pandey, G. Ganesh	Health Physics Experience during processing of long stored Uranyl Nitrate solution at reprocessing plant	Health Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India	<a href="mailto:dkpandey@barctara.gov.in">dkpandey@barctara.gov.in</a>
P33	D.Bakkiam <sup>1</sup> , A.Arulananthakumar <sup>1</sup> , Subba Rao Toleti <sup>2</sup>	STUDY OF CYTOGENETIC DAMAGE INDUCED IN HUMAN BLOOD LYMPHOCTYES IRRADIATED WITH AM-241 ALPHA RADIATION	1Radialogical and Environmental Safety Division, Health, Safety and Environment Group, Indira Gandhi centre for Atomic Research, Kalpakkam – 603102, India 2Water & Steam Chemistry Division, Bhabha Atomic Reasearch Centre, Kalpakkam – 603102, India	<a href="mailto:bakkia@igcar.gov.in">bakkia@igcar.gov.in</a>

P43	U.V Deokar, A. R. Khot, SonaliKhurana,ShellyGoel, G Ganesh	Radiological safety aspects during campaign of In-Situ Conditioning of Radioactive Sludge	Health Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India	dumesh@barctara.gov.in
P53	Sahiralamkhan Mohammed1, Sachin.B.J1, Bharat.R.G1, Sudipta Chakraborty1, Pratap Singh2, A.Dash1	Radiochemical Separation of I-131 from neutron irradiated TeO2 by dry distillation method for human health care applications	1Radiopharmaceuticals Division, 2Radiation Safety Systems Division Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India	shahir@barc.gov.in
P61	J.Venkataswamy1, YVS Swaroopa Lakshmi2, Baidurjya Nath1, K. Yellaiah1, Dr. ALV Kumar Reddy1, M.Misra1, Johnson 'D Souza, D. Pramanik and Dr. Dinesh Srivastava	A case study on innovative approach for controlling the stack release of uranium particulates in UO2 powder production	1Uranium Oxide Plant, Nuclear Fuel Complex, ECIL Post, Hyderabad 500062, India 2Health Physics unit, Nuclear Fuel Complex, ECIL Post, Hyderabad 500062, India	<a href="mailto:jvenkataswamy@gmail.com">jvenkataswamy@gmail.com</a>
P63	Riya Dey1, 2, S Anand1, 2, N Chauhan3, K D Singh1, M S Kulkarni1,2, Y S Mayya4, A K Singhvi3	Monte Carlo Simulation of Beta Dose Rate Distribution in Sand Grains of Heterogeneous Size for Implementing in Single Grain OSL Dating	<sup>1</sup> Health Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai <sup>2</sup> Homi Bhabha National Institute - BARC, Anushaktinagar, Mumbai <sup>3</sup> Atomic, Molecular & Optical Physics Division, Physical Research Laboratory, Ahmedabad <sup>4</sup> Department of Chemical Engineering, Indian Institute of Technology - Bombay, Mumbai	riyadey@barc.gov.in
P66	Lokesh Kumar <sup>1,3</sup> , R. B. Oza <sup>2,3</sup> , Ranjit Sharma <sup>1</sup> , R. K. Gopalakrishnan <sup>1</sup>	Estimation of tritium transfer rate from spilled tritiated water to ambient air of the Research Reactor Containment Building	1 Health Physics Division, 2 Radiation Safety System Division, Bhabha Atomic Research Centre, Mumbai, 3 Homi Bhabha National Institute, Mumbai	lokeshk@barc.gov.in
P71	N Khandelwal, Vikas Shukla, S K Pawarand J Koley	Development of Radiological Safety Criteria for ALARA Exposures Based on Analysis of Dose Intensive Jobs in NPPs	Directorate of Radiation Protection and Environment (DRP&E),Atomic Energy Regulatory Board, Anushaktinagar, Mumbai	nkhandelwal@aerb.gov.in
P79	Rajeev Kumar,Sudipta Samanta1, A.K.Mallick, Kapil Deo, Umasankari K. 2Sajin Prasad	Measurement of thermal Neutron flux at tray rod location in APSARA-U Reactor	1Reactor Physics Design Division 2Health Physics Division Bhabha Atomic Research Centre, Trombay	rajeevk@barc.gov.in
P82	M. K. Tiwari*, A. K. Kanojia, R.V.Raval, P. R.Shreekumar, N. Sur, S.Wadhwa, Sanjay Singh#, A. P. Jakhete# and Jyoti Diwan	Development of an online dose rate monitoring system for exhaust filter bank at WIP, Trombay	Waste Management Division, #Health Physics Division, Bhabha Atomic Research Centre, Trombay	manisht@barc.gov.in
P84	Pallavi Singhal <sup>*.1</sup> , Bal Govind Vats <sup>*.2</sup> , Sonali R Gondane <sup>3</sup> , and Vandana Pulhani <sup>1</sup>	Synthesis and Characterization of Silica Coated Phosphoramidate Functionalized Magnetic Nanoparticles for Uranium Separation from Aqueous Medium	1.Environmental Monitoring and Assessment Division, 2.Fuel Chemistry Division, 3.Radiation Safety Systems Division, Bhabha Atomic Research Centre, Trombay, Mumbai	psinghal@barc.gov.in, bgvats@barc.gov.in

P85	SaiKrishna Nadella,P Suryanarayna, NK Maheshwari	Radiation Protection in off gas system of Advanced Heavy water Reactor	Advanced Heavy Water Reactor ,Division,Bhabha Atomic Research Centre, Trombay Mumbai.	nskrishna@barc.gov.in
P103	Sonali P. D. Bhade and Pramilla D. Sawant	Generation of baseline urinary excretion data for 40K by Liquid Scintillation Counting technique	Internal Dosimetry Section, RSSD, BARC, Trombay	<a href="mailto:sonali@barc.gov.in">sonali@barc.gov.in</a>
P105	Rajesh K.Chaurasia, Kapil Shirsath, B. K. Sapra	FORMULATION OF A NOVEL FIXATIVE COMPOSITION FOR PRESERVATION AND RECOVERY OF LEUCOCYTES AND OTHER BIOLOGICAL SAMPLES	Radiological Physics & Advisory Division, Bhabha Atomic Research Centre, Trombay, Mumbai	rajeshc@barc.gov.in
P120	1Susheela Sivakumar, <sup>1</sup> Sanjay Singh, <sup>1</sup> S. Manju, 2D, Banerjee, <sup>1</sup> R. K. Gopalakrishnan and C.P. Kaushik	Health physics experience during fabrication of <sup>106</sup> Ru eye plaque from high level radioactive liquid waste	1Health Physics Division, <sup>2</sup> Process Development Division Bhabha Atomic Research Centre, Trombay Mumbai-400 085	susheela@barc.gov.in
P123	Rajesh Sankhla <sup>1,3</sup> , Pramilla D. Sawant <sup>1</sup> and M.S.Kulkarni <sup>2,3</sup>	Development of Portable Whole Body Monitor for Measurement of Internal Contamination During Emergency Situations.	1Radiation Safety Systems Division, <sup>2</sup> Health Physics Division, Bhabha Atomic Research Centre, 3 Homi Bhabha National Institute, Trombay, Mumbai 400085, India	rsankhla@barc.gov.in
P124	Padi Srinivas Reddy, R. Prakash, K. P. Desheeb, R. Amudhu Ramesh Kumar and M. Geo Mathews	Performance Evaluation of Enhanced Criticality Alarm System	Reprocessing Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu-603 102, India.	padi@igcar.gov.in
P126	A. PS Raveendran <sup>1</sup> , B. V Parashar <sup>1</sup> , C. V Nagarajan <sup>3</sup> , D. K Venkata Ramana <sup>3</sup> , E. SM Maskey <sup>2</sup> , F. NS Gulavani <sup>2</sup> , G. M Joshi <sup>2</sup>	Five Decades of Radiation Protection at Tarapur Atomic Power Station (TAPS- 1&2)	1Health Physics Section, Tarapur Atomic Power Station 1&2, Tarapur Maharashtra Site,NPCIL,Palghar 401504	psr@npcil.co.in
P137	D. P. Nankar <sup>1,*</sup> ,A. K. Patra <sup>1</sup> ,C.P Joshi <sup>1</sup> , I. V.Saradhi, <sup>2,3</sup> , A.Vinodkumar <sup>2,3</sup>	Performance evaluation of an automatic air moisture sampler developed at Environmental Survey Laboratory, Kakrapar Gujarat Site	1ESL (ESS, EMAD, BARC), KAPS, P.O. Anumala, Surat District, Gujarat-394651, 2Env. Monitoring and Assessment Division, BARC, Mumbai-400 085, 3Homi Bhabha National Institute, Anushaktinagar, Mumbai- 400085	dpnankar@npcil.co.in
P146	Deepak Kumar#, Y P Gautam, A K Sharma, Vineet Kumar, Avinash Kumar, J Kumar, I V Saradhi*, A Vinod kumar*	Estimation of site specific carbon content in environmental samples around NAPS Narora site for determination of Carbon 14 specific activity	Environmental Survey Laboratory, Narora Atomic Power Station, Narora *Environmental Monitoring and Assessment Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400 085	<a href="mailto:deepak_kumar@npcil.co.in">deepak_kumar@npcil.co.in</a>
P151	Varakhedkar V.K1., Vanave S.V1., Baburajan A1., Saradhi I.V2., Vinod Kumar A2.	Performance evaluation of SODAR with Tower based Ultrasonic anemometer	1Environmental Survey Laboratory, Environmental Monitoring and Assessment Division, Tarapur. 2Environmental Monitoring and Assessment Division, BARC, Mumbai-85	<a href="mailto:vedeshkv@gmail.com">vedeshkv@gmail.com</a>

P164	N.Suriya Murthy <sup>1</sup> , K.Natesan <sup>2</sup> , Vidhya Sivasailanathan <sup>1</sup> , Allu Ananth <sup>1</sup>	Development of Emergency Action Levels and examples of EAL for PFBR	1Health Physics Unit, BHAVINI, Kalpakkam, 603102, India 2Thermal Hydraulics Division, IGCAR , Kalpakkam, 603102, India	suriya@igcar.gov.in
P184	Kamaldeep <sup>1,4</sup> , Gaurav Wanage <sup>2</sup> , Sandip Basu <sup>2,4</sup> , Tapas Das <sup>3,4</sup> , Sharmila Banerjee <sup>2,4</sup>	Quantification of radioactivity inside the patient's body administered with <sup>177</sup> Lu-PSMA-617 using gamma camera and validation of technique using urine analysis method.	1Health Physics Division, 2Radiation Medicine Centre, 3Radiopharmaceuticals Division, Bhabha Atomic Research Centre, Mumbai, India, 4Homi Bhabha National Institute, Mumbai	kamaldeep240@gmail.com
P195	S Karthik <sup>1</sup> , Milind Joshi <sup>1</sup> , V.R.Mahangade <sup>1</sup> ,M.N.Saifee <sup>1</sup> , K. Venkataramana <sup>2</sup>	Post LOCA Decontamination of Fuelling Machine Vaults & Service Areas at KAPS-1	1Health Physics Unit, Kakrapar Atomic Power Station-1&2, Gujarat 394651, India 2 HSE , NPCIL HQ , Mumbai 400094, India	skarthik@npcil.co.in
P196	Sanu S Raj <sup>1</sup> , Sonali Khurana <sup>2</sup> , Sujata Gothankar <sup>1</sup> , Vandana Pulhani <sup>1</sup> A.Vinod Kumar <sup>1</sup>	Major and minor elemental analysis in suspended silt in seawater around Mumbai and its correlation with organic matter content and particle size.	Environmental Radioactivity Measurement Section <sup>1</sup> , Health Physics Division <sup>2</sup> , Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India	<a href="mailto:sanusraj@gmail.com">sanusraj@gmail.com</a>
P199	S. Chinnaesakki <sup>1</sup> , *, S. V. Bara <sup>1</sup> , M. R. Dhumale <sup>1</sup> , S. K. Jha <sup>1, 2</sup> , M. S. Kulkarni <sup>1, 2</sup>	<sup>134</sup> Cs Gamma emission probabilities Measurement using Gamma Spectrometry	1Health Physics Division, 2Homi Bhabha National Institute, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India	<a href="mailto:esakki@barc.gov.in">esakki@barc.gov.in</a>
P209	Rupali C.K.Kamat, Sunita Rautela, Ajay Kumar, Sangeeta Sartandel and Vandana Pulhani	Determination of Heavy Metals (Zn, Cr, Fe) in Mangifera Indica (Mango) Leaves using Neutron Activation Analysis (NAA)	Environmental Monitoring and Assessment Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India	<a href="mailto:chakor@barc.gov.in">chakor@barc.gov.in</a>
P221	Manish Chopra <sup>1</sup> , R. B. Oza <sup>1</sup> , R. Shrivastava <sup>1</sup> , Faby Sunny <sup>1</sup> , Indumathi S. Iyer <sup>1</sup>	Virtual Source Formulations for different Dispersion Parameterization Schemes: A Comparison	1Radiation Safety Systems Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India	<a href="mailto:mchopra@barc.gov.in">mchopra@barc.gov.in</a>
P222	Ritika Datta <sup>1</sup> , Pramilla D. Sawant <sup>2</sup> , Sonali P. D. Bhade <sup>2</sup> , M. S. Kulkarni <sup>3</sup>	Development of extractive liquid scintillation spectrometry for the determination of <sup>90</sup> Sr in urine samples for emergency bioassay	Health Physics Laboratory, RSSD, BARC, Tarapur-401502, Internal Dosimetry Section, RSSD, BARC, Trombay-85, Health Physics Division, BARC, Trombay-85	<a href="mailto:ritika@barctara.gov.in">ritika@barctara.gov.in</a>
P229	Shivam Agarwal, Amit Jain, M. K. Sharma, Jis Romal Jose and Probal Chaudhury	Design and Development of Radiation Monitoring Watch (RMW)	Radiation Safety Systems Division, Bhabha Atomic Research Centre, Mumbai-85	<a href="mailto:ashivam@barc.gov.in">ashivam@barc.gov.in</a>
P262	Renita Shiny D'Souza <sup>1</sup> , Bharath <sup>1</sup> , K. Arya Krishnan <sup>1</sup> , S. Rashmi Nayak <sup>1</sup> , Srinivas Kamath <sup>1</sup> , P.M.Ravi <sup>1</sup> , and N. Karunakara <sup>1*</sup>	<sup>14</sup> C in Terrestrial Environmental Biota in the Vicinity of PHWR NPP at Kaiga	1Centre for Advanced Research in Environmental Radioactivity (CARER), Mangalore University, Mangalagangothri – 574199, India	drkarunakara@gmail.com