Schedule of	the Symposium: N	Nuclear Energy – Its Ge	eneration & Application	ons	
Date & Time	Session	Speaker's name	Affiliation	Title of talk	Session Chairman/Co- Chairman
23 rd February (Thursday) 09.30- 11.00 am	Inaugural session	Keynote Address: Shri M Venkatachalam Inaugural Address: Dr K.N.Madhusoodanan	Distinguished Scientist & Executive Director, NPCIL Vice Chancellor, CUSAT		
11.00-11.30am	Tea Break				
Session 1 11.30-1.00 PM	Advantages and Challenges of Nuclear Power Generation	Dr Arun Nayak	Head, Nuclear Control & Planning Wing, DAE	Climate Change, Clean energy transition, role of nuclear power & fear of radiation	Shri. Umed Yadav, Additional Chief Engineer, NPCIL Shri. KG Panicker
		Shri. Martin Mascarenhas	Head, Laser & Plasma Technology Division, BARC	Development & Deployment of Indigenous Technologies for Industrial Applications in BARC	Rtd. Scientist
1.00 -2.00 PM	Lunch		·		
Session 2 2.00- 3.30PM	Nuclear fission, Fusion and Hydrogen generation using Nuclear power	Shri. Umed Yadav	Additional ChiefEngineer, NPCIL	Understanding Fear of Unknown – A nuclear energy Perspective	Dr Arun Nayak, Head, Nuclear Control & Planning Wing, DAE
		Dr Rhine Kumar A K	Asst. Professor, Department of Physics, CUSAT, Kochi	Overview of Nuclear Fusion reaction and its importance in nuclear power generation	
		Dr Drisya K	Asst. Professor, Department of Physics, University of Calicut, Kozhikode	Nucleosynthesis in low -mass stars- Understanding the cosmic origin of heavy elements	Dr M P Rajan, Retd Scientist, DAE
3.30 -3.45 PM	Tea b	reak			
Session 3		Shri. S Bansal	AERB, Mumbai, Vice- President, INS	Nuclear Safety	Dr Rhine Kumar, CUSAT

3-45 – 4.45 PM	Radiological safet Aspects &		Dr M R lyer	Head RSSD, IAEA (retd)	Development of science in early 20 th century in India	Dr Krishna		
	Environmental Issues		Shri. G D Mittal	Secretary, INS	Use of Radiation in medicine, Agriculture & Industry	prasad, retd		
						Scientist, BARC		
24th February (Friday) Session 4			Dr G S Shagos	Consultant – Nuclear Medicine, Aster Medicity, Kochi	Introduction to nuclear medicine imaging - What, how and when?	Shri. S Bansal, AERB, Vice President, INS: Dr A Venugopalan, Retd Scientist, BARC		
09.30-11.30 am	Accelerator 09.30-11.30 am Nuclear Medicine		Dr Vijay Harish	Senior Consultant – Nuclear Medicine, Rajagiri Hospital, Aluva	Therapeutic Nuclear Medicine: the use of radioisotopes for targeting diseases			
			Dr G Sugilal	Head, FRD, BARC	Spinoff Technologies of Indian Nuclear Power Programme			
		Dr C V Midhun	Department of Physics, University of Calicut	Low Energy Nuclear Physics – Highlights, Hope and Challenges				
11.30-11.45am	Tea break							
Session 5 11.45-13.00	Session 5 L1.45-13.00 Application of Nuclear Applications in Biology &		Dr Susan Eapen	Former Senior Scientist, BARC	Nuclear Technologies for feeding the world	G D Mittal, Secretary, INS Dr K K Surendranathan, e Retd Scientist, e BARC		
			Dr M Anil Kumar	Head, Dept of Botany & Academic Dean, UC college, Aluva	Applications radiation in biological research			
Agriculture			Shri Amritesh Srivastava	DGM, NPCIL, Mumbai	Nuclear Power: An inevitable option for clean, green & safe generation of electricity			
13.00 – 14.00 lunch break								
Session 6 14.00 – 16.00	Students' session	1	Dani Rose J Marattukalam and A. K. Rhine Kumar	Department of Physics, Cochin University of Science and Technology, Kochi-682022	Nuclear structure studies with HFB theory	Dr Martin Mascarenhas, Head, L&PTD, BARC		
		2	Vafiya Thaslim T T , M M Musthafa , MidhunC V , S. Ghugre , R. Rout , Gokul Das H ,	UGC-DAE-Consortium for Scientific Research, Kolkata, 700098,	Estimation of total neutron production from alpha induced reaction on ^{nat} Zr	Dr Susan Eapen Dr M R Iyer Dr T R G Kutty Shri K. Unnikrishnan		

	Swapna B ^ª , Najmunnisa T ^ª , F S Shana ^c , Rijin N T ^d , J Datta ^e ,S Dasgupta ^e	^c , govt. arts and science College, Kozhikode, ^d , Department of Physics, Jain University, Banglore, ^e , Analytical Chemistry Division, BARC-VECC Kolkata.	
3	Gokul A., Arya E. R., Anagha C. R., and A. K. Rhine Kumar	Department of Physics, Cochin University of Science and Technology, Kochi-682022	Theoretical Approaches in Nuclear Clustering
4	K. Jyothish, V. Parvathi, A. K. Rhine Kumar	Department of Physics, Cochin University of Science and Technology, Kochi-682022	Fission Barrier Calculation of 230Th Nucleus using BARRIER Code
5	T. Najumunnisa T1,2, M. M. Musthafa1, P. Mohammed Aslam3, K.K. Rajesh1, A. Shanbhag4	1Department of Physics, University of Calicut, 2AKNM Government Polytechnic College, Tirurangadi, Kerala, 3Government Arts and Science College, Kozhikode, 4Health Physics Division, BARC, Mumbai.	Production of 135Xe through proton induced fission of U-238
6	Nabeel Salim, V. Parvathi,and A. K.Rhine Kumar	Dept of Physics, Cochin University of Science and Technology, Kochi- 682022	Thermal behavior of pairing correlation in nuclei: a study of 162Dy
7	V. Parvathi, A. K. Rhine Kumar	Department of Physics, Cochin University of	Study of Collective Enhancement in Nuclear Level Density

			Science and Technology, Kochi-682022		
	0	Farhana Thesni M P	Department of Physics,	Impact of Nuclear Reactions on	
	8		University of Calicut,	Proton Therapy Dose	
			Malappuram, Kerala	distribution	
		Anjana A V*, Nicemon	Dept of Physics,	Rhenium and platinum	
	0	Thomas and Antony	University of Calicut,	nuclei using the HFB theory	
	9	Joseph	Kerala		
		Nicemon Thomas and	Dept of Physics,	A Hartree-Fock-Bogoliubov	
	10	Antony Joseph	University of Calicut,	approach to the ground state	
	10		Kerala	properties of the isotopes of	
				Krypton	
		Ummukulsu e and	Dept of Physics,	Chemical potential of	
	11	Antony joseph	University of Calicut,	thorium isotopes lying	
			Kerala	between the drip lines	
16.00 -16.30	Tea break				
Session 7					
16.30 - 18.00	Valedictory Ceremony & Concluding Session				