15th Annual Symposium of Indian Scientists Association in Japan (ISAJ) *Transformative Technologies for a Sustainable Future* 29th October, 2024 (Tuesday) Embassy of India, Tokyo		
Time	**PROGRAM**	
09:00-09:25	Registration	
09:30-10:00	**Opening Session**	
09:30	**Welcome Address**, Dr. Sunil Kaul, Chairman, ISAJ	
09:35	**Inaugural Keynote**, H.E. Mr. Sibi George, Ambassador of India to Japan	
09:45	**Conveners' Address**, Drs. Sahiba Bano, Deeksha Arya, Aaditya Manjanath	
09:50	**Vote of Thanks**, Dr. Alok Singh, Vice-Chairman, ISAJ	
09:55	**Group picture**	
10:00-10:20	**Coffee break**	
10:20-11:55	**Session I [P. K. Hashim, Hokkaido Uni. and Kensaku Matsumoto, SIST]**	
10:20	**PL-1**	**Takao Mori**, NIMS, Tsukuba *Development of thermoelectric materials and devices for waste heat power generation and IoT power sources*
10:40	**PL-2**	**Yoshihide Sekimoto**, University of Tokyo *Development of Sustainable Urban Digital Twin with Computational Urban Management*
11:00	**IL-1**	**Taichi Abe**, NIMS, Tsukuba *CALPHAD-based Thermodynamics for Permanent Magnets*
11:15	**IL-2**	**A. S. Amrutha**, Hokkaido University *Caging Bioactive Triarylimidazoles: An Innovative Way of Designing Visible-Light Activatable Drugs*
11:30	**IL-3**	**Kaliprasanna Nayak**, University of Eletrocommunications *Quantum Photonics on a Tapered Optical Fiber*
11:45	**IL-4**	**Tina Ghara**, AIST, Tsukuba *Materials Degradation and Their Protection Against Ammonia Environment at Elevated Temperatures for Exclusive Ammonia Fueled Gas Turbines*
11:55-12:55	**Lunch and Poster Session-I**	
12:55-14:45	**Session II [Kaliprasanna Nayak, UEC and Taichi Abe, NIMS]**	
12:55	**PL-3**	**Satoshi Ishikawa**, Kyoto Prefectural University *Coastal conservation and sustainable coastal development using artificial seaweed "C-lant"*

13:15	**PL-4**	**Ryoji Sahara,** NIMS, Tsukuba *A multiscale simulation without empirical parameter for designing structural materials*
13:35	**IL-5**	**Prasenjit Ghosh**, IISER Pune *Atomistic Modelling of Materials: Applications to thermoelectrics*
13:50	**IL-6**	**Barun Kumar Barman**, NIMS, Tsukuba *Carbonized polymer microspheres: fluorescent micro-emitters for encrypted photonic barcodes and anti-counterfeit applications*
14:05	**IL-7**	**Tomoya Inami**, Shizuoka Institute of Science and Technology *Study on the characteristics of black pine defoliation and sustainable utilization of defoliated pine needles*
14:20	**IL-8**	**Shivakumar Kilingaru**, Hokkaido University *Green Synthesis of a Flexible Metal-Organic Framework [$Cu(BF_4)_2$(4,4′-bipyridine)$_2$] (ELM-11) for Selective CO_2 Adsorption*
14:35	**IL-9**	**Kaushita Banerjee**, AIST, Tsukuba *Harnessing Sustainable Formulation Technologies: Evaluating the Viscoelastic and Sensorial Attributes of a Natural Oil Emollient Cream*
14:45-15:05	**Coffee Break**	
15:05-16:40	**Session III [A. S. Amrutha, Hokkaido Uni. and Barun Kumar Barman, NIMS]**	
15:05	**PL-5**	**Masahiko Demura,** NIMS, Tsukuba *Data-driven materials research: NIMS initiatives*
15:25	**IL-10**	**Yoshikazu Kobayashi,** Nihon University *Implementation of three-dimensional effects in tomographic techniques using elastic waves based on ray-tracing for plate-like structures*
15:40	**IL-11**	**Naoaki Kuwata**, NIMS, Tsukuba *Lithium Diffusion in Perovskite-Type Solid Electrolytes Revealed by PFG-NMR and TOF-SIMS*
15:55	**IL-12**	**Takahiro Nishida**, Shizuoka Institute of Science and Technology *Damage Progression of CFRP by Means of Acoustic Emission Analysis*
16:10	**IL-13**	**Siddabasave Gowda B.**, Hokkaido University *Exploring Food Nutrients and Function with the aid of Mass Spectrometry Technologies*
16:25	**IL-14**	**P. K. Hashim**, Hokkaido University *Near-neutral pH sensing by azoheteroarene dyes*
16:40-17:40	**Poster Session-II (extended)**	
17:40-18:00	**Closing and Poster Awards** **Concluding Remarks:** Kedarnath Mahapatra, General Secretary, ISAJ	