

Frontiers of Materials, Life & Earth Sciences and Beyond

13th Annual ISAJ Symposium

November 18, 2022 (Friday)

Main Auditorium, Embassy of India, Tokyo, Japan

Time	PROGRAM	
9:00 -9:25	PARTICIPANTS REGISTRATION	
9:30 – 10:05	INAUGURAL SESSION	
9:30	Welcome Address	Dr. Sunil Kaul, Chairman, ISAJ
9:40	Conveners' Address	Dr. Elango Chandiran, Dr. Digvijay Singh
9:45	Keynote Address	H.E. Mr. Sibi George, The Ambassador of India to Japan
9:55	Awards Presentation	ISAJ Lifetime achievement award
10:00	Vote of Thanks	Dr. Alok Singh, Vice-Chairman, ISAJ
10:05 - 10:30	PHOTO SESSION & TEA/COFFEE BREAK	
10:30-12:10	SESSION I CHAIR: Dr. Renu Wadhwa (AIST), Prof. Sakthi Kumar (Toyo Univ.)	
10:30	Tadaaki Nagao , National Institute for Materials Science (NIMS) <i>Carbon Dots as Sustainable Materials for UV Screener, Direct White Light Emitter, and Laser</i>	
10:50	Michio Kawamiya , The Japan Agency for Marine-Earth Science and Technology (JAMSTEC) <i>Earth system modeling for projecting the changing planet</i>	
11:10	Kazutoshi Iijima , Yokohama National University <i>Aggregation Behavior of Polysaccharide Composite Particles and Application for Tissue Engineering</i>	

11:30	Manish Biyani , Japan Advanced Institute of Science and Technology (JAIST) <i>Can we predict the next pandemic?</i>
11:45	Ruma Mandal , Tohoku University <i>Magnetization Dynamics Study of High PMA Ultrathin Magnetic Heterostructures: A TRMOKE Study</i>
11:55	Vamsi K. Komarala , Indian Institute of Technology (IIT) Delhi <i>Fabrication and characterization of carrier-selective contact based silicon solar cells</i>
12:10 – 14:00	LUNCH & POSTER SESSION Chairs: Dr. Digvijay Singh (NIMS), Dr Vickey Nandal (NIMS)
14:00 – 15:30	SESSION II CHAIR: Prof. Atsushi Suzuki (YNU), Dr. Aaditya Manjanath (NIMS)
14:00	Jonathan Hill , National Institute for Materials Science (NIMS) <i>Novel Functional Organic Chromophores</i>
14:20	Toru Hara , National Institute for Materials Science (NIMS) <i>Electron microscopy techniques developed in NIMS for materials research</i>
14:30	Sachiko Hayashida , Research Institute for Humanity and Nature (RIHN) <i>Aakash project: toward clear air over the world</i>
14:45	Hena Das , Tokyo Institute of Technology <i>Mechanisms at the level of atoms and electrons that drive electric field control over magnetism</i>
15:05	Sae Matsunaga , The University of Tokyo <i>High temperature materials: Ni-based superalloys and beyond</i>
15:20	Bhaskar Dasgupta , Tokyo University <i>Hybrid of experiment and computation for the interpretation of biomolecular sequence and structural data</i>
15:30 - 15:50	TEA/COFFEE BREAK

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15:50-17:30	SESSION III CHAIR: Dr. Swadhin Behera (JAMSTEC), Dr. Kedarnath Mahapatra (Tokai U.)	
15:50	Masayoshi Higuchi , National Institute for Materials Science (NIMS) <i>Electrochromic Metallo-Supramolecular Polymers</i>	
16:10	Atsushi Suzuki , Yokohama National University <i>Smart Hydrogels with Excellent Swelling and Mechanical Properties for Realistic Medical Simulators</i>	
16:20	Subbiah Alwarappan , CSIR-CERI, India, & University of Tsukuba <i>Electrochemical Biosensors</i>	
16:35	Mahesh K. Kaushik , University of Tsukuba <i>Orexin, sleep, and narcolepsy; The discovery received the 2023 "Breakthrough Prize"</i>	
16:50	V Srivani , Jichi Medical University <i>Multi-Therapeutic Applications of Engineered Phage Capsids</i>	
17:00	Akhilesh babu Ganganboina , National Institute for Materials Science (NIMS) <i>Nanostructured photoelectrochemical platform probing visible light-driven virus detection</i>	
17:10	Md Emrul Kayesh , National Institute for Materials Science (NIMS) <i>Coadditive Engineering for Stable Sn-based provskite solar cells</i>	
17:20	Aaditya Manjanath , National Institute for Materials Science (NIMS) <i>Probing chemical reaction dynamics through excited-state time-dependent GW simulations</i>	
17:30-17:50	SESSION IV: SELECTED POSTERS Oral Presentations CHAIR: Dr. Asima Sultana (AIST), Dr. Elango Chandiran (NIMS)	
4 mins. each	PS-1	Hisay Lama , The University of Tokyo <i>Glassy Phase in Dense Bacteria Population</i>
	PS-2	Deeksha Arya , The University of Tokyo <i>Multinational advancements for AI-driven road inspection</i>
	PS-3	Pooja Gusain , Keio University <i>Violet light modulates mood behavior via non-visual retinal opsin OPN5</i>
	PS-4	Rahul Bhardwaj , Japan Advanced Institute of Science and Technology (JAIST) <i>Nafion's Proton Transport in Cathode Catalyst Layer of Hydrogen Fuel Cell</i>
	PS-5	Huang Tianwei , The University of Tokyo <i>Modification of extracellular vesicles with oligopeptide for selective interaction with activated endothelium</i>
17:50~	CLOSING SESSION & POSTER AWARDS	