

16th Annual Symposium of Indian Scientists Association in Japan (ISAJ)
Circular Innovation for Urban Transformation & Beyond
28-29th November 2025
SIST Ekimae Campus, Shizuoka City

PL: Plenary talk; IL: Invited talk; OR: Oral presentation; P: Poster presentation

Time	November 28 th , 2025 (Friday) (Simultaneous interpretation in English/Japanese)	
12:00-13:00	Registration	
13:00-15:00	Opening Session (MC: Prof. Takahiro Nishida)	
13:00	Welcome Address: Prof. Kedarnath Mahapatra, Convener of Symposium, Shizuoka Institute of Science & Technology Opening Address: Prof. Masakazu Kimura, President, Shizuoka Institute of Science & Technology Dr. Yashawant Dev Panwar, Counsellor (Science & Technology), Embassy of India	
13:20	Keynote: Prof. Muralidhar Miryala, Shibaura Institute of Technology <i>High-Tc Superconductors: Key Technology for Net-Zero Energy Future</i>	<i>Abstract Page 2</i>
13:50	Special Plenary: Dr. Kuniaki Minami, Japan Railway Construction, Transport and Technology Agency <i>Technical Exchange Between Japan and India for Quality Assurance of Steel Bridges in the Mumbai–Ahmedabad High-Speed Rail Project</i>	3
14:20	Special Plenary: Mr. Yoshiya Nakagawa, PADECO Co. Ltd. <i>Urban Transformation in Mumbai through Underground Railway</i>	5
14:50	Concluding Remarks	
15:00	Group Photo & Coffee Break	
15:30-17:00	Plenary Session [Chair: Tomonori Tominaga]	
15:30	Special Invited: Mr. Yuji Nishikawa, JST <i>Promoting Science and Technology Partnerships: JST's International Programs for Young Researchers from India and Other Countries</i>	6
15:45 Cancelled	PL-1 Satsuki Goto , Japan International Cooperation Agency (JICA) <i>JICA's Technical Cooperation in Wastewater and Sludge Management in India: Current Engagement and Future Collaboration</i>	7
16:05	PL-2 Remi Chandran , Remote Sensing Technology Center of Japan <i>The Importance of Digital Public Infrastructure for People and Planet: Addressing Human–Nature Conflicts Across Asia and Africa</i>	8
16:25	PL-3 Tomoya Inami , Shizuoka Institute of Science and Technology <i>A New Processing Technique for the Sustainable Use of Rice Husks and Residues to Address the Urban Air Pollution Problem in North India</i>	9

16:45	PL-4 Shohei Koike , Showa Sekkei, Shizuoka <i>Establishing a Control System for Alligator Weed (Alternanthera philoxeroides) through Industry-Government- Academia-Civil Society Collaboration - Background and Approaches in the Case of Asahata Retention Basin</i>	10
17:00	Panel Discussion	
17:30	Concluding Remarks	

Time	November 29 th , 2025 (Saturday)	
08:30-09:25	Registration	
09:00-10:00	Opening Session (MC: Dr. Renu Wadhwa)	
09:00	Welcome Address: Dr. Sunil Kaul, Chairman, ISAJ	
	Opening Address: Prof. Masakazu Kimura, President, SIST	
09:10	Inaugural Address: (video message) H.E. Ms. Nagma Mohamed Mallick Ambassador of India to Japan	
09:20	Conveners Address: Prof. Kedarnath Mahapatra, SIST	
09:25	Vote of Thanks , Dr. Alok Singh, Vice-Chairman, ISAJ	
09:30	Group Photo	
9:40-12:00	Session I [Chairs: Renu Wadhwa, Sridhara Nayak]	
9:40	PL-5 Satoru Yoshimura , Akita University <i>Development Spatial Light Modulator for Realization of 3D Display with Low Power Consumption and High Brightness with Using Multiferroic Thin Films and Their Laminated Films</i>	12
10:00	PL-6 Takahiro Nishida , Shizuoka Institute of Science and Technology <i>Selection of Highly Alkaline-Resistant Bacteria for Self-Healing Concrete</i>	13
10:20	PL-7 Akiko Yamamoto , National Institute for Materials Science <i>Development of New In Vitro Evaluation Methods for Biomedical Application of Biodegradable Metals</i>	14
10:40	IL-1 Manako Tanaka , Tokyo University of the Arts <i>Recent Advances in Nondestructive Analytical Methods for Iron Cultural Heritage: Complementary Use of Synchrotron Radiation, Neutrons, and Muons</i>	20
10:55	IL-2 Deepa Kasaragod , Hiroshima University <i>Deep Ultraviolet Light-based Open Microscopy for Imaging Three-Dimensional Structures in the Mouse Brain</i>	21
11:10	IL-3 Shreya Santra , Tohoku University <i>from Mines to Moon: Intelligent Multi-Robot Systems and the Next Leap in Space Exploration</i>	22

11:25	IL-4	Kazumi Hirano , National Institute of Advanced Industrial Science and Technology (AIST) <i>Seaweed-derived Compound Fucoxanthin Protects Cells from Stress Associated with Alzheimer's Disease</i>	23
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13:30-14:10	Session II [Chair: Manako Tanaka]		
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13:50	PL-9	Sridhara Nayak , Japan Meteorological Corporation <i>Modeling of Extreme Events for Resilient and Sustainable Cities</i>	16
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15:00	IL-8	Arghya Dutta , National Institute for Materials Science <i>Lithium–Air Batteries: Turning Air into Energy</i>	27
15:15	OR-2	Biplab Manna , National Institute for Materials Science <i>Decoding Polymer Chain using Nano Porous Material</i>	35
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14:15-15:35	Session II B (Parallel) [Chairs: Agamoni Pathak, A R Dilipan]		
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P9	Yuta Hachigo	SIST	<i>Investigations of Sacrificial Anode Materials and Charging Conditions in Electro-deposition Method of Reinforced Concrete</i>	51
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