12th Annual ISAJ Symposium 70 years of India and Japan Diplomatic Relations

United Nations Decade of Ocean Science for Sustainable Development (2021-2030)	70 years of India and Japan Diplomatic Relations United Nations Decade of Ocean Science for Sustainable Development (2021-2030)		
	o World		
Science-Technology-Innovation (STI) Towards A Sustainable World			
644	Tokai University Marine Science Museum (Auditorium)		
	(Interdisciplinary and Hybrid) 東海大学		
Time (JST) DAY 1: Nov. 26, 2021 (Friday)			
11:30-13:30 Registration (Beach Hotel Gosea's Lobby)			
Inaugural Session			
14:00-14:04 Opening Address Dr. Kedar Mahapatra, Convener, the 12th Annual ISAJ Symposium			
14:04-14:08 Welcome Address Prof. Hiroshi Saito, Dean, School of Marine Science and Technology, Tokai	Univ.		
14:08-14:13 Chairman's Address Dr. Sunil Kaul, Chairman, ISAJ			
14:13-14:23 Inaugural Address H.E. Mr. Sanjay Kumar Verma, Ambassador of India to Japan			
14:23-14:28 Chancellor's Address Prof. Kiyoshi Yamada, Chancellor, Tokai University			
14:28-14:33 Mayors' Address Mr. Nobuhiro Tanabe, Mayor, Shizuoka City			
14:33-14:38 Counsellor's Address Dr. Usha Dixit, Counsellor (S&T), Embassy of India, Tokyo			
14:38-14:43 Special Address Mr. Yoshiro Kaku, Chief Representative, NEDO, India			
14:43-14:48 Awards Presentations & Addresses ISAJ Life Time Achievement Award Distinguished Mentor Award			
14:48-15:18Keynote LectureProf. Asahiko Taira, Executive Director, Institute of Oceanic Research & Dev University "Comparison of the Tectonic Framework between Eastern India and Southwestern Ja for the Evolution of Continental Crust- F53"	-		
15:18-15:23 Vote of Thanks / Closing Remarks Dr. Alok Singh, Vice-Chairman, ISAJ			
15:23-15:28 Group Photo			
15:28-15:50 Tea Break			
Ocean Science & Technology (Plenary and Invited Lectu	res)		
Chairs: Satoshi Ishikawa, Tokai Univ. and Swadhin Behera, JAMSTEC			
15:50-16:10 Plenary Lecture (Web) Towards Blue Economy. Shailesh Nayak, Director, National Institute of Advanced Studies, India			
16:10-16:30Plenary LectureOceans for a Sustainable World. Swadhin Behera, JAMSTEC			
16:30- 16:50Invited LectureExperimental Study on Applicability of Molten Slag to Tidal Flat Materia Masato Niki, Tokai University	ls.		
16:50-17:10Invited LectureNegative pressure effect plate for portable underwater robot. Norimitsu Sakagami, Tokai University			
17:10 -17:25Invited Lecture (Web)Surface layer temperature inversion, a rare oceanographic process occurring Kuroshio-Oyashio frontal zone and the northeastern Indian Ocean(South and Bay of Bengal). Pankajakshan T, Naval Physical & Oceanographic Laboratory (NPOL), India			
17:25-17:40Invited Lecture (Web)Escalating levels of pathogenic Fecal Indicator Bacteria in coastal waters a of Mumbai, India: a public health risks. Abhay B. Fulke, National Institute of Oceanography, India	nd marine beaches		
17:40-17:55 Invited Lecture (Web) Effects of climate variability on pelagic fishery production in the Indian Control Invited Lecture (Web)	Dcean.		
Jonson Lumban-Gaol, Institut Pertanian Bogor (IPB) University, Indonesia			

(JST) 8:30	DAY 2: Nov. 27, 2021 (Saturday)		
9:15	Registration: (Beach Hotel Gosea's Lobby)		
9:15 9:30	Convener's opening remarks: Swapnil Ghodke & Santosh Gothwal		
9:30	Session	1 1- Plenary	
9:30	ROOM A (Marine Science Museum Auditorium) Session Chair: Swadhin Behera & Sunil Kaul		
9:30		ure projection in IPCC AR6 (WG1)	
9:50	Prabir K. Patra,	JAMSTEC (in person)	
9:50 10:10	Design of Microstructures in Metallic Materials for High Performance and Reliability Alok Singh, NIMS (in person)		
10.10		cohol) Gels with Excellent Swelling and Mechanical	
10:10 10:30		operties a National University (in person)	
		ring Technologies utilizing Vanadium Dioxide Films	
10:30 10:50		r-Metal Transition	
10:50		kai University (in person)	
11:00		Break	
11:00		ssion 2	
12:15	Session 2A ROOM A (Marine Science Museum	Session 2B	
	Auditorium)	ROOM B (Beach Hotel Gosea's Lobby) Session Chair: Santosh Gothwal	
	Session Chair : Rumpa Pal & Usha Dixit Living cell manipulation and analysis using	Session Chair: Saniosh Goinwai	
11:00 11:15	nanoneedle	Why is REM sleep important? Deependra Kumar, University of Tsukuba (web)	
	Chikashi Nakamura, AIST (In person) Definitions of reality and the role of scientists in	Deependra Kumar, Omversity of Tsukuba (web)	
	science and technology for a sustainable world:	Protective Effects of Ashwagandha Extracts on Palmitate	
11:15 11:30	Emphasis on Japan activities and influence of the United States	Acid-Induced Lipid Accumulation and Oxidative Stress in Hepatocytes	
	Darius C. Greenidge, Shizuoka University (In	Dongyang Li, AIST (web)	
11.00	person) Selective Separation of Medically Indispensable	Ashwagandha Withanolides Enhance Muscle Cell	
11:30 11:45	Isotope Gases through Nanopores Sanjeev Kumar, Shinshu University (In person)	Differentiation Jia Wang, AIST (web)	
	π -hole Bonding in a New Co-crystal Hydrate of	Cancer Targeted Delivery of Withaferin A Using a	
11:45 12:00	Gallic Acid and Pyrazine: Static and Dynamic Charge Density Analysis	Nanostructured Covalent Organic Framework	
	Rumpa Pal, University of Tsukuba (In person)	Yu Yue, AIST (web)	
12:00	Therapeutic Taping Technique (Hatanaka Style)	CRISPR-based Genome Editing Tools for Basic and Applied Biological Research	
12:15	taping center (In person)	Rahul Shelake, Gyeongsang National University, Korea (web)	
12.15	Lunch Break (Beach Hotel G		
12:15		• /	
	Poste	r session:	
		corpaeniformes: Liparidae) from Japanese Waters,	
		culture? Focus upon the Utilization and protection of	
 heirloom crops in Shizuoka, Kuniko Hanamori, Tokai University Covid-19 impact on Collaboration between University Students and Local Community, 1 		nori, Tokai University	
		University Students and Local Community, Hiyori	
	4. Evaluation of the carotenoid contents heirloo	om sweet potato'ninjin-imo', Setsuko Maeda,	
	Shizuoka Professional University of Agriculture		
5. Remote sensing in coastal water monitoring: Applications in the Suruga Bay and the coastal waters along the east coast of Japan, Kedarnath Mahapatra, Tokai university			
12:15 12:15 13:15 12:15 13:15	Applied Biological Research Catherine E Shukla, Shukla Hatanaka medical taping center (In person) Applied Biological Research Rahul Shelake, Gyeongsang National University, Korea (web) Lunch Break (Beach Hotel Gosea's Lobby) and Poster Session (Marine Science Museum Auditorium) Poster session: 1. Two Snailfishes of the Genus Osteodiscus (Scorpaeniformes: Liparidae) from Japanese Waters, Kenta Murasaki, Tokai University 2. How can we maintain the "Richness" of agriculture? Focus upon the Utilization and protection of heirloom crops in Shizuoka, Kuniko Hanamori, Tokai University		

	Session 3 - Yo	oung Researchers
13:15- 14:05	Session 3A	Session 3B
	ROOM A (Marine Science Museum Auditorium) Session Chair: Manjiri Kulkarni	ROOM B (Beach Hotel Gosea's Lobby) Session Chair: Abhay B Fulke
13:15 13:20	Cell Surface Engineering with Functional Peptides to Improve Therapeutic Effect for Stroke Treatment Isha Goel, The University of Tokyo (web)	microRNA-708 Regulates CARF (a stress regulatory protein) Differentially in Telomerase Positive and Negative Human Cancer Cells He Huifu, AIST (web)
13:20- 13:25	How can we maintain the "Richness" of agriculture? Focus upon the Utilization and protection of heirloom crops in Shizuoka Kuniko Hanamori, Tokai University (web)	Antistress and Antiaging Activities in Lipoic Acid: Experimental Evidence Ashish Kaul, DAILAB, AIST (web)
13:25 13:30	Covid-19 impact on Collaboration between University Students and Local Community Hiyori Nagano, Tokai university (web)	Anti-Stress Activities in the Hypoxia-Inducing Phytochemical Tectorigenin Mallika Khurana, DAILAB, AIST (web)
13:30 13:35	Evaluation of the carotenoid contents heirloom sweet potato'ninjin-imo' MAEDA Setsuko, Shizuoka Professional University of Agriculture (web)	MortaparibPlus - A Novel Multimodal Anticancer Small Molecule Anissa Nofita Sari, DAILAB, AIST (web)
13:35 13:40	Mortaparibmild: A Novel Anticancer Agent with p53-dependent and -independent Mechanism Hazna Noor Meidinna, DAILAB, AIST (web)	Cell-based Screenings for Anti-stress Natural Compounds: Selection of Ashwagandha Withanolides and Their Molecular Mechanisms Huayue Zhang, University of Tsukuba (web)
13:40 13:45	Isolation and Characterization of 3- Chlorobenzoate (3-CB) Degrading Bacteria from Soils in Shizuoka Ifat Ara, Shizuoka University (web)	Use of sequencing batch reactor for simultaneous carbon, nitrogen and phosphorus removal from domestic wastewater by alternatng cyclic times Vinod Kumar Jangam, IIT BHU, India (web)
13:45 13:50	Stress Buffering and Longevity Effects of AE in Caenorhabditis elegans (C. elegans) Somuah-Asante, Sandra, University of Tsukuba (web)	Geospatial assessment of expanding solar farms for electrification of India Hitesh Supe, Hokkaido University (web)
13:50 13:55	Developing a Low-Cost Open-Source based UAV System for Mapping of Plantations Land Use in Sabah, Malaysian Borneo. Stanley Anak Suab, Hokkaido University (web)	Machine learning based approach for assessment of tyhoon induced forest damage in case of Hokkaido Xinyu Chen, Hokkaido University (web)
13:55 14:00	Isolation and Identification of Indigenous Chromium Tolerant Bacteria from a Heavy Metal Polluted Urban Creek, India Aashna Monga, National Institute of Oceanography (NIO), India (web)	Capturing and transmission of drug resistance gene by conjugative plasmids Singh Shweta, Shizuoka University (web)
14:00 14:05		Study of Geo-morphological changes in Chambal Ravine of India using TanDEM-X SAR and machine learning model Raveena Raj, Hokkaido University (web)
14:05 14:15	Break	

	Session 4	
14:15- 14:30	Session 4A	Session 4B
	ROOM A (Marine Science Museum Auditorium) Session Chairs :Saurabh Singh & Swapnil Ghodke	ROOM B (Beach Hotel Gosea's Lobby) Session Chair: Santosh Gothwal
14:15- 14:30	Various programs for graduate study and collaborative research at NIMS Seiji Kuroda, Global Networking Division, NIMS (web)	Long lead predictions of ENSO using convolutional neural networks Kalpesh Ravindra Patil, JAMSTEC (web)
14:30 14:45	Strategic Interfacial Design for Advanced Secondary Batteries Noriyoshi Matsumi, JAIST (web)	Synthesis, Characterization and Molecular Docking Study of Isoxazolines Swarnagowri Nayak, Manipal Institute of Technology, India (web)
14:45 15:00	Design of ideal active sites on the ZrO2 surface in the anode layer to improve SOFC performance Shigeharu ITO, NIMS (web)	Molecular Mechanism of Apical Hook Development in Arabidopsis thaliana Pawan Kumar Jewariya, Beijing Forestry University, China (web)
15:00 15:15	Emerging Materials for Mitigating the Environmental Threats Rajendra P Bunkar, Defense R &D Establishment (DRDE), India (web)	On elucidation of structure-function relationship of human proteins upon binding with sulfa drugs Jhimli Bhattacharyaa, NIT Nagaland (web)
15:15 15:30	Opportunities and challenges in the search of highly efficient thermoelectric materials Sudhir Kumar Pandey, IIT Mandi, India (web)	Development of Novel DNA Aptamer-based Analytical Tools to Detect Toxic Insecticides from Plants Ulhas S. Kadam, Gyeongsang National University, Republic of South Korea (web)
17:30 17:45	Design and Development of Mechanically Robust p-Type Thermoelectric Device Using Flexible Ag2(S,Se) Material Saurabh Singh, Toyota Technological Institute (web)	CRISPR/Cas9-mediated Genome Engineering of Tomato for Pathogen Resistance Trait: A Case Study Dibyajyoti Pramanik, Gyeongsang National University (web)
15:45- 16:00	Break	

	Session 5	
16:00- 17:30	Session 5A	Session 5B
	ROOM A (Marine Science Museum Auditorium) Session Chairs :Saurabh Singh & Swapnil Ghodke	ROOM B (Beach Hotel Gosea's Lobby) Session Chair : Rumpa Pal & Manjiri Kulkarni
16:00- 16:15	Cell surface engineering with heparin- conjugated lipids for regulating blood activation in transplantation Yuji Teramura, AIST (In person)	Response Surface Based Model Updating of Heritage Multiple Arch Gallery Masonry Bridge Vinay Shimpi, National Institute of Technology Puduchery, India (web)
16:15- 16:30	Subsurface mapping using ground penetrating radars (GPR) Elvis Anup Shukla, Ehime University, Imeiyo GK (In person)	Application of High-Performance Computing to Fire Safety Assemenent of Reinfoced Concrete Structures Mahendra Kumar Pal, IIT BHU, India (web)
16:30 16:45	Highly respirable SWCNT based stretchable sensor for skin CO2 gas monitoring Preety Ahuja, Shinshu University (In person)	Nanoparticle Functionalized with Biomolecular Machines PK Hashim, Hokkaido University (web)

Session 5 Continued.....

16:45 17:00	Detection and evaluation of specific single cell by using "magcup Hyonchol Kim, DAILAB, AIST (In person)	Numerical and Experimental Investigation of Slow- Drift Damping for a Single-Point Moored Floating Offshore Wind Turbine Sharath Srinivasamurthy, Saga University (web)
17:00 17:15	Marine small-scale fisheries in Cambodia Leakhena Chin, Tokai University (Web)	Experiments and Numerical Analysis on Wave Energy Converter using Ocean Breaking Waves Paresh Halder, Saga University (web)
17:15 17:30	Assessment of marine litter and microplastics (MPs) quantification along the Indian coast Pravakar Mishra, National Centre for Coastal Research, India (web)	Accurate classification of breast cancer cells from normal mammary epithelial cells by machine learning assisted Raman microspectroscopy Hemanth Noothalapati, Shimane University (web)
17:30 17:40	Sperm allocation strategies in Japanese pygmy squid Ryohei Tanabe, Tokai University (In person)	
17:40 18:00	Closing Ceremony and Award Session	