

**Subtheme 8**  
**Ocean technologies for sustainable development**  
**Session 1 Time & Date: 14:00- 15:30 IST, 28 February 2024**  
**Oral presentations: 6; Poster+Flash presentation: 1; Poster presentation:6**  
**Venue: Sarabhai**

Serial No	Abstract Num	Abstract Title	Author Name	Co-Authors Name
1	WOSC/2024/ABS/94	A Compact Design and Development of a Deep-Sea Mining Vehicle for Soft Soil Conditions	C.Janarthanan	V.Sundaramoorthi; V.Chandran; Gopkumar K; G.A.Ramadass,
2	WOSC/2024/ABS/165	Study of Nonlinear Power Take-Off Mechanism for Wave Energy Conversion	POGULURI SUNNY KUMAR	Yoon Hyeok Bae
3	WOSC/2024/ABS/226	OceanEyes: A mobile app technology to enhance our understanding of marine life with citizen science approach	Johnny Konjarla	Saravanane N, Sherine S Cubelio, GVM Gupta
4	WOSC/2024/ABS/271	Unveiling Krishna Godavari Basin's Gas Hydrate Potential: A High- Resolution AUV Exploration	Subin Raj V B	Sarun Lal M A, V.Deepak, S. Ramesh, N. R Ramesh, G.A Ramadass, Sriram Gullappalli, Peketi Aditya
5	WOSC/2024/ABS/243	Open Sea trail of wave energy converter at Indian coast-challenges	Prashant Kumar	
6	WOSC/2024/ABS/280	Two-Dimensional Instantaneous Shipping Radiated Noise Estimation for Indian Ocean Region	Shridhar Prabhuraman	Akshita Mangal, Arnab Dab
<b>Poster + Flash presentation</b>				
1	WOSC/2024/ABS/89	REVIEW ON MATHEMATICAL MODEL FOR VARIOUS TYPES OF WAVE ENERGY CONVERTERS	BRATHIKAN VM	KALANITHI S,JANARTHANAN V, SUDALAIMUTHU SURESH P
<b>Poster presentation</b>				
1	WOSC/2024/ABS/108	Configurations of tracked vehicle for development of Deep-sea Mining Vehicles for Enhanced Traction in Soft Seabed	C.Janarthanan	R.Muruganandhana, Gopkumar K, G.A. Ramadass
2	WOSC/2024/ABS/314	Floating platforms for deep ocean mining – A Review	Rishi Gajapathy	Anbu Aravind Gnanaraj
3	WOSC/2024/ABS/406	Impact of Artificial Reef Deployment on Water Quality Parameters in Coastal waters of Pulicat Region, TamilNadu, India	S. Aruna	P. Pavinkumar; R. Velmurugan; D. Arun Jenish; B. Sinduja; Kalavathikunigal,
4	WOSC/2024/ABS/464	Significance of Calibrating underwater electro-acoustic transducers/ Hydrophones for oceanographic applications	Shabeer A	Preyenga V, A.Malarkodi, G.Latha
5	WOSC/2024/ABS/474	Influence of Microalgal Diets on the Mass Production of Apocyclops royi (Cyclopoida, Copepoda) and Efficacy of A. royi Nauplii as Live Prey for First Feeding Larvae of Silver Pompano, Trachinotus blochii (Lacepede, 1801)	Radha Vijayaraj	Kareem Altaff, Mani Jayaprakashvel

6	WOSC/2024/ABS/494	Leveraging Machine Learning for Real-Time Water Pollution Detection: A Study with Convolutional Neural Networks	Veer Amit Mehta	
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**Ocean technologies for sustainable development**  
**Session 2 Time & Date: 16:00- 17:30 IST, 28 February 2024**  
**Oral presentations: 6; Poster+Flash presentation: 4; Poster presentation:0**  
**Venue: Sarabhai**

<b>Serial No</b>	<b>Abstract Num</b>	<b>Abstract Title</b>	<b>Author Name</b>	<b>Co-Authors Name</b>
1	WOSC/2024/ABS/63	BALLAST WATER MANAGEMENT USING MIKE21 AND ARCGIS TOOLS	VINODHINI A	PONMOZHI A, KRISHNAVENI M
2	WOSC/2024/ABS/95	Literature Review on Environmental Impacts and Flocculation Dynamics in Mining Plumes for Deep Sea Mining Operations	Siva Chidambaram.S	C. Janarthanan, Gopkumar Kuttikrishnan, G.A. Ramadass,
3	WOSC/2024/ABS/112	Long Term Projection of Wind Power Density Variations Due to Climate Change Using CMIP6 for Indian Coastal Region	Phil Raju Abraham	Anitha Gera, Prasanth Valayamkunnath
4	WOSC/2024/ABS/149	Blue-Green Revolution: Navigating the Future with Marine Algae Bio diesel	NITHARSAN.K	Rashmi V, Thajuddin N, Uma L, Muralitharan G, Prabakaran D
5	WOSC/2024/ABS/189	Developing Indigenous Wave Energy based Navigational Buoy	Anulekha Majumdar	Ashwani Vishwanath, Purnima Jalihal
6	WOSC/2024/ABS/333	Hydrodynamic analysis of freely floating U-OWC integrated with $\Pi$ -shaped breakwater	Ronit Muduli	Debabrata Karmakar
<b>Poster+Flash presentation</b>				
<b>Serial No</b>	<b>Abstract Num</b>	<b>Abstract Title</b>	<b>Author Name</b>	<b>Co-Authors Name</b>
1	WOSC/2024/ABS/125	India's Tidal Energy Sustainability	Vijaya Lakshmi Thiagarajan	Abdus Samad, Suresh Rajendran
2	WOSC/2024/ABS/251	Sustainable Deployment of Ocean Wave Energy Converter (WEC) for Blue Economy	Atul Kumar Pandey	Prashant Kumar, Sailesh Kumar Swain, Sumedh Kulkarni
3	WOSC/2024/ABS/282	Sustainable fault-tolerant control for autonomous underwater vehicle under uncertainty and external disturbances using LMI approach	M. Asha Safana	R. Manikandan, R. Sakthivel, S. Marshal Anthoni
4	WOSC/2024/ABS/362	DESIGNING MATCHED ANGLE ARC FOR WIDE FOV IMAGING OPTICS IN OCEAN COLOR MONITORING	Praveen K. C	Bijoy Raha, Satyanarayana Raju, Subramanya U. R, Sree Ram Kumar U. V, Bhaskar Raju S, Venkateswaran R and Sriram K. V

**Subtheme 8**  
**Ocean technologies for sustainable development**  
**Session 3 Time & Date: 11:30- 13:00 IST, 29 February 2024**  
**Oral presentations: 6; Poster+Flash presentation: 1; Poster presentation:0**  
**Venue: Sarabhai**

**Oral presentation**

<b>Serial No</b>	<b>Abstract Num</b>	<b>Abstract Title</b>	<b>Author Name</b>	<b>Co-Authors Name</b>
1	WOSC/2024/ABS/230	Li-Fi technology in Wireless Data Transfer for AUV charging station	Aarshitha Prakash	Leon Tharakan, Sreerag S
2	WOSC/2024/ABS/286	Experimental Investigation on the Maneuvering of a Container Ship in Regular waves	Rameesha T V	P Krishnankutty
3	WOSC/2024/ABS/293	ADVANCING THE PRODUCTION OF NUTRITIONALLY RICH MICROALGAL SPECIES THROUGH LARGE SCALE PHOTOBIOREACTOR CULTIVATION	Soumya S. Prakash	Sajeevan T.P., IS Bright Singh, Valsamma Joseph
4	WOSC/2024/ABS/321	Instrumentation system for parametric data collection of OTEC using deep sea moored surface buoy.	Biren Pattanaik	T Sailesh, A Praneeth, P Kumar Sai Arun, Y . V. Narasimha Rao, Purnima Jalihal
5	WOSC/2024/ABS/439	Performance analysis of parabolic harbor wall integrated with OWC – A numerical investigation	K. Narendran	V.V. Bhargav, S.A. Sannasiraj
6	WOSC/2024/ABS/365	Numerical investigations of dual Wave Energy Converter (WEC) near a fully reflecting wall	R.Appandairaj	K.G. Vijay, K. Murali
<b>Poster+Flash presentation</b>				
1	WOSC/2024/ABS/274	Performance and Techno-economic Analysis of the Helical Hydrokinetic Turbine-A Review	Avinash G Shahabadi	ABDUS SAMAD

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**Session 4 Time & Date: 14:00- 15:30 IST, 29 February 2024**  
**Oral presentations: 6; Poster+Flash presentation: 6; Poster presentation:0**  
**Venue: Sarabhai**

**Oral presentation**

<b>Serial No</b>	<b>Abstract Num</b>	<b>Abstract Title</b>	<b>Author Name</b>	<b>Co-Authors Name</b>
1	WOSC/2024/ABS/110	A study on the hydrodynamic characteristics of a mining machine navigating over the deep-sea floor bed.	S. Padmanaba Sundar	C. Janarthanan, Gopakumar Kuttikrishnan, G. A. Ramadass,
2	WOSC/2024/ABS/221	Design of Lightweight Structures Using Additive Manufacturing	K.Thirumurugan	K.Shanmuga Sundaram, T.Anand, M.Arul Muthiah
3	WOSC/2024/ABS/462	Design and Implementation of Instrumentation for Monitoring Coral Reefs	Shwetha Joselin D	Shruti Sridhar, Thamarai Prakash, Srinivasan R
4	WOSC/2024/ABS/463	Challenges in Real Time Data Collection from Coastal and Deep Ocean Moored Buoy Platforms	Biswajit Haldar	B. Kesavakumar, Ramesh, K., G. Vengatesan, Amit R. Chavan, Avaneesh Kumar, Arul Muthiah M
5	WOSC/2024/ABS/465	Machine Learning in Ocean Research	Raghul Manoharan	R.Keerthivasan, A.Malarkodi, G.Latha
6	WOSC/2024/ABS/480	Indigenously development of Technologies for the Ocean Observation and Ocean Technologies	S.Muthukumaravel,	G.A Ramadass, P Muthuvel and R Srinivasan

**Poster+Flash**

<b>Serial No</b>	<b>Abstract Num</b>	<b>Abstract Title</b>	<b>Author Name</b>	<b>Co-Authors Name</b>
1	WOSC/2024/ABS/172	Oceanic Optical Networking: A Review of Underwater Communication	Linga Ram Kumar T	Mannadithya A, R.Hema
2	WOSC/2024/ABS/294	Development of IgY Antibody-Based Therapeutics to Combat Key Bacterial Diseases Impacting Sustainable Aquaculture Development	Manomi S	Manoj Kumar TM, A Abdul Haseeb, S Kayalvizhi, K Abhinaya, Lakshmi G, Jayesh Puthumana
3	WOSC/2024/ABS/405	Impact of Artificial Reef Deployment on Phytoplankton and Zooplankton Communities in Coastal waters of Pulicat Region, TamilNadu, India	S. Aruna	P. Pavinkumar; R. Velmurugan; D. Arun Jenish; B. Sinduja; Kalavathikunigal, TamilNadu Dr J Jayalalithaa Fisheries University
4	WOSC/2024/ABS/414	Geometrical modeling and control of sustainable offshore energy systems under meto-ocean environment	R.MANIKANDAN	Satarupa Dey, Sakthivel

5	WOSC/2024/ABS/419	A coupled piezoelectric-magneto micro energy harvester from Ocean wave motion for ocean applications	Mahija Hann J.	Pearlin Sam Jinoj T., Mudgal B V
6	WOSC/2024/ABS/459	Impact of ocean technology on sustainable marine ecosystems and biodiversity through coastal protection, Preservation and restoration.	Bhavneet Kaur Sachdev	Sumanta Bhattacharya