



**DAY – 1 (8 April 2024) (FN)**

**REGISTRATION** : Starts from 8:30 Hrs. onwards at School of Marine Sciences

**Plenary Session Venue** : School of Marine Science (SMS) Auditorium

Schedule		
Session Chair: Prof. (Dr.) S. Bijoy Nandan, Vice Chancellor, Kannur University Dean, School of Marine Sciences, CUSAT		
Time	Talk title	Presenter
11:00 to 11:45 Hrs	Plenary Lecture 1	Dr. Thamban Meloth, NCPOR, Goa
11:45 to 12:30 Hrs	Plenary Lecture 2	Dr. Shubha Satyendranath, PML, UK
12:30 to 13:45 Hrs	<b>Lunch</b>	

**Session Venues: SMS, CIFNET, NCAAH, MGD, POD, DAS**

**SMS** : School of Marine Sciences Auditorium, Academic Block 1, Fourth Floor  
**CIFNET** : Central Institute of Fisheries Nautical and Engineering Training Auditorium, Ground Floor  
**NCAAH** : National Centre for Aquatic Animal Health, Academic Block 2, Fourth Floor  
**MGD** : Dept. of Marine Geology and Geophysics, Academic Block 2, Fifth Floor  
**POD** : Dept. of Physical Oceanography, Academic Block 2, Sixth Floor  
**DAS** : Dept. Atmospheric Sciences, Academic Block 2, Seventh Floor

**DAY-1 (AN) (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 8 April 2024**

**Venue : SMS**

Focal Theme: Polar Sciences (POL)			
Session Chair: Dr. Anu Gopinath, Professor, KUFOS			
Co-chair:Dr.Parmanand Sharma,Scientist F,NCPOR, Goa			
No.	Time	Talk title	Authors
POL-KN1	14:00 to 14:30 Hrs	Migrating Arctic Terns do connect Arctic and Antarctic	Maarten J.J.E Loonen, University of Groningen, Arctic centre
POL-KN2	14:30 to 15:00 Hrs	Antarctica and Human engagements- Past and future	Prof. Naresh C. Pant Delhi University
POL-OR1	15:00 to 15:12 Hrs	Latitudinal and vertical distribution of prokaryotic communities in the western Arctic Ocean and its possible climate change link	Vipindas P V, Siddarthan Venkatachalam, Jabir Thajudeen, Anand Jain
POL-OR2	15:12 to 15:24 Hrs	Distribution of diazotrophs in the Western Arctic Ocean	Jabir T., Vipindas P.V., Venkitachalam S., Anand Jain
POL-OR3	15:24 to 15:36 Hrs	Spatio-temporal variability in mass balance and dynamics of high Arctic valley glacier Vestre Broggerbreen, Svalbard	Parmanand Sharma
POL-OR4	15:36 to 15:48 Hrs	Arctic Sea-ice harbours distinct prokaryotic community structure and ecological functions across the Central Arctic Ocean	Siddarthan Venkatachalam, Puthiya Veetil Vipindas, Thajudeen Jabir, Ahammed Shereef, Anand Jain
POL-OR5	15:48 to 16:00 Hrs	Spatial distribution, fate and possible sources of mercury in the lacustrine system of Schirmacher Hills, East Antarctica	Binish M.B, Laluraj C.M, Tiwari A.K, Swathy Krishna, Mahesh Mohan
POL-OR6	16:00 to 16:12 Hrs	An improved method to increase snow mapping accuracy in high-altitude wetlands using remote sensing	P. S. Smitha, K. Maya, K. P. Sudheer, V. M. Bindhu, K. Sreelash, D. Padmalal
POL-OR7	16:12 to 16:24 Hrs	Trace metal distribution and metal tolerant bacterial diversity associated with a glacio-marine system in Arctic	Femi Anna Thomas, Lekshmi H, Krishnan K. P
		Tea Break 16:30 to 16:45 Hrs	
Venue: DAS (POL OR-08 to POL OR-10)			
POL-OR8	16:45 to 16:57 Hrs	Unprecedented changes in the weddell sea maximum sea ice extent in 2023: Role of atmospheric circulation anomalies and polar storms	C. C. Bajish, Babula Jena, S. Kshitija

POL-OR9	16:57 to 17:09 Hrs	An environmental magnetism approach for soils and sediments of Schirmacher Oasis, East Antarctica	Adyasha Rath, Anish Kumar Warriar, G.S. Joju, Firoz Badesab, Marcos A.E. Chaparro, B.S. Mahesh, Rahul Mohan
POL-OR10	17:09 to 17.21	Carbon Potential and Blue Carbon Contribution of Meiobenthic Nematodes in the Arctic Kongsfjord	Krishnapriya P.P., Aswathy N.K., S. Bijoy Nandan
<b>Poster Session (16:45 to 17:45 Hrs)</b>			
POL-PR11		Biomass burning contribution to the Arctic black carbon	Ritesh Kumar, Rohit Srivastava
POL-PR12		Tropopause Height Estimation Using Change Point Detection Methods on MARA Data	Ajilesh PP, K Satheesan, Sourav Chatterjee, Sujitlal SP
POL-PR13		Paleoenvironmental study and evolution of Lake Sierra and LH04 in East Antarctica	Manjima A P, Dr. Rahul Mohan, Dr. Cheryl Noronha e D Mello
POL-PR14		An inorganic geochemical perspective of environmental changes from an East Antarctic Lake	Sneha N, K Balakrishna, Anish Kumar Warriar, Joju George Sebastian, Mahesh Badanal, Firoz Badesab, Rahul Mohan
POL-PR15		Trend and Interannual Variability of Heat Content in the Barents Sea	Aparnna Varghese, P. J Vidya, M.Nuncio
POL-PR16		The role of free-living larger nematodes (>500Åµm) in the carbon dynamics of Arctic ecosystem	Kavya K B, Aswathy N K, Krishnapriya P P, S Bijoy Nandan
POL-PR17		Records of environmental variations from an east Antarctic oasis: A perspective gained from inorganic geochemical analysis	Vyshnav P, Anish Kumar Warriar, Joju George Sebastian, K. Balakrishna, Krishna Prasad AA, B.S. Mahesh, Rahul Mohan
POL-PR18		A study on Greenland sea ice variability during 1979-2017	Anakha K M, Nuncio Murukesh, Vidya P J

**DAY-1 (AN) (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 8 April 2024**

**Venue : CIFNET**

Focal Theme: Aquatic Animal Health and Management Strategies (AAH)			
Session Chair: Prof. (Dr.) Rosamma Philip (Retd.), CUSAT Co-Chair: Dr.T T Ajith Kumar, NBFGR, Kochi			
No.	Time	Talk title	Authors
AAH-KN 1	14:00 to 14:30 Hrs	Aquatic animal health management in Indian fisheries: Past, present and beyond	Dr. K K Vijayan Former Director, ICAR-CIBA, Chennai
AAH-OR1	14:30 to 14:42 Hrs	Field-level evaluation of marine <i>Picoalga Picochlorum</i> maculatum MACC3 biomass (Pmac1) as a functional feed for ornamental fishes	Kannukkarathi Thasreefa, I S Bright Singh, Joseph Valsamma
AAH-OR2	14:42 to 14:54 Hrs	An incidence of the association of Trichoderma to ulcerations in <i>Channa striata</i>	Kayalvizhi S, Dhanya, Abinayaa K, Abdul Haseeb A, Keshika D, Bhuvaneshwari R, Valsamma Joseph and I. S. Bright Singh
AAH-OR3	14:54 to 15:06 Hrs	The existence of acute anaerobic conditions in the surface sediments in the traditional shrimp culture systems of Kerala	Divya P, Sreelakshmi KS, Akshay P Sajeev, Suresh Kunjiraman, Ammu Thomas, Riya George, Biju N.G, Joe Antony, Baburaj K.V., Valsamma Joseph and IS Bright Singh
AAH-OR4	15:06 to 15:18 Hrs	Is white spot syndrome virus a true vertically transmitted virus?	Joseph Jeswin, Valsamma Joseph, I.S. Bright Singh
AAH-OR5	15:18 to 15:30 Hrs	Gene silencing of gonad inhibiting hormone in post-larva of <i>Penaeus monodon</i> mediated through oral administration of invitro synthesized dsRNA	V.S. Gopika, S. Vrinda, I.S. Bright Singh
AAH-OR6	15:30 to 15:42 Hrs	Assessment of Goldfish ( <i>Carassius auratus</i> ) immune responses: CyHV-2 infection vs heat-inactivated vaccine	Arathi Dharmaratnama, Thangaraj Raja Swaminathan, Arun Sudhagar and Uttam Kumar Sarkar

AAH-OR7	15:42 to 15:54 Hrs	A simple recirculating aquaculture system for the experimental rearing of bivalves at the laboratory	Soumya Balakrishnan, Ambadi Kannan Maliyekkal Sajeevan, Akshay P.S., Jayesh Puthumana, I.S. Bright Singh
AAH-OR8	15:54 to 16:06 Hrs	Enhancing growth and digestive efficiency in GIFT Tilapia through probiotic supplementation with <i>Bacillus cereus</i> MCCB 101	Limmy T P, Valsamma Joseph, Isaac S. Bright Singh, Riya George, Akshay P S
AAH-OR9	16:06 to 16:18 Hrs	Immunostimulatory effects of biophytum sensitivum dietary supplementation on growth performance, innate immune response, antioxidant status, immune gene expressions, and disease resistance against <i>Streptococcus agalactiae</i> in Nile tilapia ( <i>Oreochromis niloticus</i> )	Akshay Thuruthiyil Rajesh, Preetham Elumalai
AAH-OR10	16:18 to 16:30 Hrs	Molecular epidemiology of viral diseases in finfishes from 2019 to 2024 and demonstration of prediction modelling	Muneer A., Keerthana P.V., Silpa Bhaskaran, Anjana J., Arathi M., Prinsha Prasad K.P., Samyuktha Saju, Sajeevan T.P., Jayesh Puthumana, Valsamma Joseph, I.S. Bright Singh
<b>Tea Break 16:30 to 16:45 Hrs</b>			
AAH-OR11	16:45 to 16:57 Hrs	Role of molecular adjuvants in enhancing the vaccine efficacy for protection against <i>Streptococcus agalactiae</i> infection in Nile tilapia ( <i>Oreochromis niloticus</i> )	Sreeja Lakshmi, Alex Wang, Nandakumar, Ritam Guha, Eakapol Wangkahart <sup>3</sup> , Tiehui Wang, Preetham Elumalai
AAH-OR12	16:57 to 17:09 Hrs	Insights into early immune development: Histone H2A-derived AMP expression in <i>Trachinotus blochii</i>	Greeshma T.J, Noorjahan K.K, Anne Maria Thomas, Dhanya Lenin K.L., Athira Menon T., Swapna P. Antony
AAH-OR13	17:09 to 17:21 Hrs	Transcriptomic and Transcriptomic and in-silico analysis of $\beta$ - 3 Thymosin from <i>Penaeus Monodon</i>	Sheethu Annie Vincent, Theivanayagam Maharajan, Stanislaus Antony Ceasar, Pratheesh Mathew, K. K. Noorjahan, Kavya Gokul, Raniya Samad, Swapna P. Antony

		<b>Poster Session ( AAH-14 to AAH-35) 16:45 to 17:45 Hrs</b>	
AAH-PR14		Assessing the antimicrobial efficacy of synthetic $\beta$ -Thymosin against <i>Vibrio vulnificus</i> in Tilapia	Navya Raj, Anjali V.P. , Noorjahan K.K., Anne Maria Thomas, Swapna P. Antony
AAH-PR15		Marine actinomycetes conferring protection against white spot virus infection in <i>Penaeus monodon</i> culture system	Divya T Babu, Bhavya Kachiprath, Manomi S. Sarasan, Anju M. V. I. S. Bright Singh & Rosamma Philip
AAH-PR16		Assessing the immunomodulatory potential of Ashwagandha root powder on <i>Penaeus vannamei</i> Boone, 1931 against <i>Vibrio Parahaemolyticus</i>	Heena Mayavanshi, Gamit Roshniben Ravishbhai, M. Alwinpeter, P. V. Parmar
AAH-PR17		Production and characterization of sulphated polysaccharides from tropical marine red microalga <i>Dixonella grisea</i> MACC1	Keshika, D., Ancy Varghese, Thasreefa, K., Valsamma Joseph, and Bright Singh
AAH-PR18		Stress and immune responses of <i>Etroplus suratensis</i> on chronic ammonia exposure	Parvathy A J, Bini C Das, Jifiriya M J, Chandhini S, Devika Pillai, Rejish Kumar V J
AAH-PR19		Incidence of high-level prevalence of IHNV in <i>Penaeus monodon</i> in both traditional and scientific culture systems of Kerala	Chithira K., Famitha Rasheed, Divya P., Sreelakshmi K.S., Salini K., Diya Dominic D.V., Muneer A., Joe Antony, Baburaj K.V., Valsamma Joseph and I.S. Bright Singh
AAH-PR20		Social impact of the traditional shrimp culture system in Kerala: A sustainable ecosystem-based approach in aquaculture	Sreelakshmi KS, Divya P, Shynu VC, Joe Antony, Baburaj KV, Jayesh Puthumana, Valsamma Joseph1 and IS Bright Singh1
AAH-PR21		Isolation and Identification of Antibiotic-resistant Microbes from the Post-larvae of Black Tiger Shrimp, <i>Penaeus monodon</i>	Meera V T, Nisha N, Ajil Benny, Sumayya A S, Chaithanya E R, Sajeewan T P

AAH-PR22		Identification and characterization of infectious <i>Vibrio</i> strains isolated from <i>Penaeus vannamei</i> in Biofloc culture system: A case study	Anjana J, Prinsha Prasad K P, Chithira K, Samyuktha Saju, Muneer A, Vinusree K.P, Keerthana P.V, Riya George, Biju N.G, Akshay Sajeev, Jayesh Puthumana , I. S Bright Singh
AAH-PR23		Isolation and identification of fungal infections in <i>Penaeus vannamei</i> from the shrimp culture systems of Kerala, India	Samyuktha Saju, Famitha Rasheed, Catherine Treasa, Muneer A., Vinusree K.P., Ammu Thomas, Biju N.G., Valsamma Joseph, Jayesh Puthumana and IS Bright Singh
AAH-PR24		<i>Streptococcus</i> spp. associated with septicaemia in <i>Etroplus suratensis</i> and <i>Liza parsia</i> grown in open cages in brackish water environment: A case study	Arathi M., Anagha Anilkumar, Muneer A., Vinusree K.P., Keerthana PV., Ammu Thomas, Riya George, Valsamma Joseph, Jayesh Puthumana & IS Bright Singh
AAH-PR25		Isolation, characterization, and identification of <i>Vibrios</i> from <i>Penaeus vannamei</i> and <i>Penaeus monodon</i> in zero water exchange shrimp culture systems of Kerala and their management options: A Case Study	Prinsha Prasad K.P., Anjana J., Chithira K., Arathi M., Keerthana P.V., Muneer A., Vinusree K.P., Riya George, Ammu Thomas, Biju N.G., Jayesh Puthumana, Valsamma Joseph and IS Bright Singh
AAH-PR26		Immune response and efficacy of a feed-based Chitosan/ $\beta$ -glucan incorporated vaccine against <i>Streptococcus agalactiae</i> disease in Nile tilapia ( <i>Oreochromis niloticus</i> )	Krishna kumar, Nandha Kumar, Preetham Elumalai
AAH-PR27		Chitosan encapsulated novel immersion vaccine enhanced with $\beta$ - Glucan as adjuvant against aquatic pathogen <i>Edwardsiella tarda</i> in <i>Oreochromis niloticus</i> (Nile Tilapia)	Nandhakumar, Omkar Vijay Byadgi, Shih-Chu Chen, Preetham Elumalai
AAH-PR28		Immune response and protective efficacy of $\beta$ -glucan and Alkoxyglycerol as adjuvant in <i>Streptococcus agalactiae</i> formalin-inactivated vaccine in Nile tilapia ( <i>Oreochromis niloticus</i> )	Ritam Guha , Omkar Vijay Byadgi, Shih-Chu Chen , Preetham Elumalai
AAH-PR29		The effects of microplastic on pearl spot ( <i>Etroplus suratensis</i> ): tissue accumulation, haemato-immunological responses, and related gene expression	Bini C. Das, Devika Pillai, Rejish Kumar V.J

AAH-PR30		Isolation, biochemical characterisation and phylogrouping of multidrug resistant, biofilm forming <i>Escherichia coli</i> from environmental samples	Neeraja R, Parvathi A
AAH-PR31		The early immune foundation: Tracking the expression patterns of Crustin and penaeidin antimicrobial peptide genes in the giant tiger shrimp, <i>Penaeus monodon</i>	Noorjahan K.K , Greeshma T.J , Anne Maria Thomas , Dhanya Lenin K.L , Athira Menon T., Swapna P. Antony
AAH-PR32		Unraveling genomic insights into cannibalism in teleost fish	Bhuvaneshwari R, Manomi S , Jayesh Puthumana
AAH-PR33		Investigation of bacterial pathogen <i>Klebsiella</i> spp. in aquaculture farms in Ernakulam District, Kerala, India	Jijina MP, Mujeeb Rahiman KM
AAH-PR34		Influence of age on aluminum-induced lipid peroxidation and neuro-lipofuscin in frontal cortex and hippocampus of rat brain: A protective role of <i>Turbinaria ornata</i> .	Nandha Kumar, Ritam Guha, Krishna Kumar, Baby PS Chakrapani, Shamprasad Varija Raghu, Preetham Elumalai.
AAH-PR35		Prevalence of antimicrobial resistance in <i>Escherichia coli</i> collected from cage culture and pond culture of central Kerala, Pizhala Island Cochin brackishwater.	Aftab Razul S , Archana M , Jesmi Yousuf , Soumya K , A.A. Mohamed Hatha , Vipin P M

**DAY-1 (AN) (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 08 April 2024**

**Venue : NCAAH**

Focal Theme: Marine Genomics (MG)			
Session Chair: Prof (Dr). T.P. Sajeevan, CUSAT			
Co-Chair: Dr. V J Rejish Kumar, KUFOB, Kochi			
No.	Time	Talk title	Authors
MG-KN1	14.00 to 14.30 Hrs	Design of an automated system for carrying out online/under water analysis of anti-microbial resistance genes (ARGs) and antibiotic susceptibility tests (ASTs)	Prof (Dr). Syed Hashsham, Distinguished Professor, Michigan State University, USA
MG-OR 1	14.30 to 14.42 Hrs	Comparative genomic analysis of <i>Vibrio</i> species isolated from freshwater and marine ecosystems to decode virulence and antimicrobial resistance patterns	P S Seethalakshmi, Raj Devika, Abdulaziz Anas, Jasmin C, Nandini Menon, Grinson George, Shubha Sathyendranath.



MG-OR 2	14.42 to 14.54 Hrs	Molecular and functional characterization of a novel hepcidin isoform, Ea-hep from yellow spotted rockcod, <i>Epinephelus areolatus</i> (Forsskal, 1775)	Athira P P, Muhammed Musthafa S, Anju M V, Anooja V V, Neelima, Archana K, Chaithanya E R, Sajeevan T P and Rosamma Philip
MG-OR 3	14.54 to 15.06 Hrs	Comparative Analysis of Viral Particle Purification Methods for Marine Virome Studies	Sonujith K.A, Athira Menon T. , and Swapna P. Antony
MG-OR 4	15.06 to 15.18 Hrs	Unravelling the Virome Associated with the Sediments of the Coastal Waters.	Athira Menon T, Swapna P. Antony
MG-OR 5	15.18 to 15.30 Hrs	Turbulence in the archaeal taxonomy: Introducing two novel MAGs into class JANJXX01 for better resolution	Parthkumar Prajapati, Chandrashekar Mootapally, Neelam Nathani
MG-OR 6	15.30 to 15.42 Hrs	Western Coast of India: Insights from Seasonal Monsoonal Variations in Bacterial diversity	Hafza S, Parvathi A
MG-OR 7	15.42 to 15.54 Hrs	Tissue-wise Gene Expression Profiling of Antimicrobial Peptides in the Genetically Improved Farmed Tilapia (GIFT), <i>Oreochromis niloticus</i>	K. L. Dhanya Lenina and Swapna P. Antonya
MG-OR 8	15.54 to 16.06 Hrs	Development of a Fish-Specific CRISPR/Cas9 Platform with NeoR-Mediated Targeted G418 Selection to Enhance Screening Efficiency of Genome-Engineered Cells In Vitro	Aswathy C, Valsamma Joseph, Jayesh Puthumana
MG-OR 9	16.06 to 16.18 Hrs	Systems approach to investigate the molecular interactions in the biosynthetic pathway of pyocyanin produced by <i>Pseudomonas aeruginosa</i>	Jini Jimmy, Silpa Bhaskaran, Valsamma Joseph, Bright Singh
MG-OR 10	16.18 to 16.30 Hrs	Seasonal alteration of microbial communities associated with the sea urchin <i>Stomopneustes variolaris</i>	Sethu Lakshmi, Suhas Shetye, Nandakumar K, Samir Damare
		<b>Tea Break 16.30 to 16.45 Hrs</b>	
MG-OR 11	16.45 to 16.57 Hrs	Comprehensive Gene Expression Profiling and Functional Annotation of Gill Tissue in the Asian Green Mussel, <i>Perna viridis</i> (Linnaeus, 1758)	Vysakh V G, Sandhya Sukumaran and A. Gopalakrishnan
MG-OR 12	16.57 to 17.09 Hrs	Comparative mitogenomics, phylogeny and evolution of the underexploited oceanic Purpleback Flying Squid, <i>Sthenoteuthis oualaniensis</i> (Lesson, 1830) from the Indo-Pacific	Jeena N. S., Wilson Sebastian, Summaya Rahuman, Sajeela K. A.
MG-OR 13	17.09 to 17.21 Hrs	Effect of Trace Metals on the Bacterial Community Structure in Coastal and Open Ocean Waters of the Indian Ocean	Natasha Maria Barnes, Samir R. Damare
		<b>Poster Session (MG-PR 14 to 16) 16.45 to 17.45 Hrs</b>	
MG-PR 14		Hydrocarbon degrading enzyme machinery from an Arctic Fjord microbiome	Solly Solomon, Bhavya Kachiprath, Jayanath Gopi, Mootapally Chandrashekar, Neelam Nathani, Jayesh Puthumana, Chaithanya ER, Rosamma Philip
MG-PR 15		Comparative study on the resistance capacities of <i>Halomonas</i> sp. from the Indian Ocean using whole genome sequence analysis.	Swathy Raj, Femi Anna Thomas, Dhanush B Danes
MG-PR 16		Metabolomic Profiling of Marine Sponges from Gulf of Mannar Region, Tamil Nadu	Kanimozhi Athithan , Kannan Jayakumar

**DAY-1 (AN) (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 8 April 2024**

**Venue : MGD**

<b>Focal Theme: Coastal Processes and Estuarine Dynamics (CED), Isotope Geochemistry (IGC), Geomarine Resources and Exploration (GRE), Submarine Groundwater Discharge and Mapping (SGD), Societal Applications of Marine Geosciences (SMG)</b>			
<b>Session Chair: Dr. K K Ramachandran, Scientist G, ESSO-NCESS Thiruvananthapuram</b>			
<b>Co-Chair: Dr.Girish Gopinath,KUFOS,Kochi</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>CED-KN1</b>	<b>14:00 to 14:30 Hrs</b>	<b>Sea level rise: Consequences for Kerala coast</b>	<b>Dr. K K Ramachandran, Scientist G, ESSO-NCESS Thiruvananthapuram</b>
CED-OR1	14:30 to 14:42 Hrs	Spatio-temporal variability in sedimentary variables and elemental ratios of a Ramsar wetland, Southwest India	Roshni Mohan, Sudha A, Ratheesh Kumar C S
CED-OR2	14:42 to 14:54 Hrs	Microplankton dynamics in Pollethai mudbank region of Alappuzha, Kerala, South west coast of India	Sonamol Zacharia, Shilpa Sasidharan, C.C Manjumol, Shireen P Mohammed, Sethu M.R, Alok K, Ayana P.P, V.P. Limna Mol
CED-OR3	14:54 to 15:06 Hrs	Seasonal dynamics and environmental drivers of productivity in the Kochi estuarine system: insights from estuarine turbidity maxima and nutrient abundance	Adarsh V B, Muraleedharan K. R, Abdul Azeez, Gireeshkumar T. R, Ravikumar C Nair, A.Shivaprasad
CED-OR4	15:06 to 15:18 Hrs	Monitoring nearshore dynamics through low-cost smart video technology	Chintam Venkateswarlu, M Ramesh, Surisetty VV Arunkumar, B Gireesh, C V Naidu, L Sheela Nair, Rashmi Sharma
CED-OR5	15:18 to 15:30 Hrs	Abundance, seasonal patterns and predatory effect of the exotic jellyfish <i>Blackfordia virginica</i> in a tropical monsoonal estuary	Hari Praved. P, Neethu. K.V, Bijoy Nandan. S
CED-OR6	15:30 to 15:42 Hrs	Atmospheric methane contribution from urbanised mangroves and their role in global methane budget	N. Regina Hershey, S. Bijoy Nandan
CED-OR7	15:42 to 15:54 Hrs	Large-scale environmental influence on tropical phytoplankton community compositions in the nearshore (off Kasaragod)/estuarine (Chandragiri estuary) regimes of Southwest coast of India- HPLC/CHEMTAX approach	P. Anil, N.V. Madhu, C.R. Vishal, S. Jyothi, P. Gopika, Praveena Sudheesh, K.S. Arya, S. Abdul Azeez
IGC-OR8	15:54 to 16:06 Hrs	Sr-Nd isotope geochemistry of basalts from Vema Fracture Zone, Central Indian Ridge: Plume-Ridge interaction site	Poornima Dhawaskar Sawant and Ranadhir Mukhopadhyay
GRE-OR9	16:06 to 16:18 Hrs	Geological setting of mid-ocean ridge hydrothermal sulfide: Case studies from the Central Indian and South west Indian ridges	Koushick Sen, Parijat Roy & John Kurian P
GRE-OR10	16:18 to 16:30 Hrs	Significance of water column studies for the exploration of polymetallic sulphides in the Indian ocean	Surya Prakash L., John Kurian P., and Team

		<b>Tea Break 16:30 to 16:45 Hrs</b>	
GRE-OR11	16:45 to 16:57 Hrs	An overview on the geochemistry and genesis heterogeneity of ferromanganese oxide deposits in the Indian ocean	Rajani P. Ramesh, Manoj R. V.
SGD-OR12	16:57 to 17:09 Hrs	Occurrence of submarine groundwater discharge along the coast of North Goa: A preliminary study	Shankar Lamani, Santosh Prabhu, K Balakrishna
SGD-OR13	17:09 to 17:21 Hrs	Urban hydrogeological study of Kochi urban area under coastal plain, Central Kerala, South India	Joji, V S
		<b>Poster Session (CED 14 to SMG-22) 16:45 to 17:45 Hrs</b>	
CED-PR14		Geochemical responses to anthropogenic inputs in the downstream sediments of a tropical river, South west coast of India	T.J. Arun, T.D. Aneesh, Krishna R Prasad, A.T. Limisha, Reji Srinivas
CED-PR15		30–60-day oscillations of salinity in a monsoonal estuary	I. P. Safin, V. Vijith, R. Sajeew
CED-PR16		Studies on long-term geomorphological changes along the Thane estuary on the West coast of India using geospatial technique	Anjana Jayaprakash, Fazil P. F, Muraleedharan K R, Rakesh P. S, Abdul Azeez, Ravikumar C Nair, Vivek M A
CED-PR17		Granulometric shifts and textural maturity of reef associated sediments with respect to the monsoonal changes from the coral islands of the Gulf of Mannar	Rakhil Dev, Mohammed Noohu Nazeer
CED-PR18		Seasonal and spatial variation in salinity: A case study of the Vettar river estuary	Deepthi N, Balasubramani K, Madhan Raj K, Ramesharavind P, Mu Ramkumar
IGC-PR19		High amount of oceanic moisture supply mask the amount effect in monsoon floods	Lekshmy P R, Angel Anita Christy, Sreeshma Krishnadas, Midhun M, MG Yadava, Sanjeev Kumar, K Mohankumar
GRE-PR20		Unveiling the secrets of the deep: High-resolution AUV data from Central Indian Ocean basin and Krishna Godavari basin	V.B Subin Raj, M.A. Sarun Lal, S. Ramesh, N.R Ramesh, R. Ramesh, V. Deepak, G.A. Ramadass
SGD-PR21		A preliminary study of the submarine groundwater discharge and its geochemical properties, along the Karnataka coastline	Melvin Jacob, Santhosh Prabhu, K. Balakrishna
SMG-PR22		‘Student-scientists’: A student-centric initiative to monitor climate change impact and communicate disaster risk on the western coast of India	Paul Joshi, Anjali Bharathi, Binoy V V

**DAY-1 (AN) (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 08 April 2024**

**Venue : POD**

<b>Focal Theme: Oceans and Climate Change (OCC), Marine Bio-geochemical Dynamics (MBD), Marine Policies and Regulations (MPR)</b>			
<b>Session Chair: Prof. (Dr.) Chandrasekar A., Dean (Research and Development), IIST, Thiruvananthapuram</b>			
<b>Co-Chair: Dr. P K Saji, Associate Professor, CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>OCC-KN1</b>	<b>14:00 to 14:30 Hrs</b>	<b>Carbon to Carbon credits</b>	<b>Prof. (Dr.) S. Bijoy Nandan Vice Chancellor, Kannur University Dean, Faculty of Marine Sciences, CUSAT</b>
<b>OCC-KN2</b>	<b>14:30 to 15:00 Hrs</b>	<b>Modelling of land surface of the Indian region</b>	<b>Prof. (Dr.) Chandrasekar A. Dean (Research and Development) IIST, Thiruvananthapuram</b>
OCC - OR1	15:00 to 15:12 Hrs	Unveiling tropical cyclones influence over North Indian Ocean's upper layer	Jishnu Krishna, Anant B. Parekh
OCC - OR2	15:12 to 15:24 Hrs	Role of tropical - extra tropical interaction on heavy rainfall events in Upper Ganga and Sharda River basins in the Western Himalayas	Sudeepkumar B L, Jayasankar C B, Lekshmi Mudra B, Om Mani Singh and K S Hosalikar
OCC - OR3	15:24 to 15:36 Hrs	Exploring biomineralization potential: Isolation of bacterial strains from different environmental samples and extraction of bacterial crude Carbonic Anhydrase (CA) enzyme for carbon sequestration analysis	Suhara Shebin A. A., Prof (Dr) Parvathi A.
OCC - OR4	15:36 to 15:48 Hrs	Potential reasons for Arabian Sea rapid warming	Swathy A R, Saji P K
OCC - OR5	15:48 to 16:00 Hrs	Interaction between prominent mode of Indian Ocean with and without El Nino	Jayanti Pal, Sayantika Mukherjee
OCC - OR6	16:00 to 16:12 Hrs	Indian ocean wave climate projection using CMIP6 models: A comprehensive analysis	Remya P G, Meenakshi Sreejith, Malavika Sudhakaran
OCC - OR7	16:12 to 16:24 Hrs	Unraveling the oceanic secrets: Insights from Radiolarian abundance and geochemical proxies in the Southern Bay of Bengal during the last 44 kyr BP	Kavya Aravind, N R Nisha
<b>Tea Break 16:30 to 16:45 Hrs</b>			
OCC - OR8	16:45 to 16:57 Hrs	Climate change and its impending impact on fisheries: A global and Indian perspective	Ashutosh Danve, Elina Jose Vettom
OCC - OR9	16:57 to 17:09 Hrs	A recent increase in wave energy and shoreline shifting due to sea surface temperature along the Kanniyakumari coast, India	Sasi Mary Priya Rajan
OCC - OR10	17:09 to 17:21 Hrs	Carbon dynamics and hyperoxic conditions in the intertidal rockpools along the Central west coast of India	K. Nandakumar, Suhas S. Shetye, Sethu Lakshmi, Siby Kurian

OCC – OR11	17:21 to 17:33 Hrs	Identifying external factors driving sea surface temperature variations in the Indian Ocean	Dileepkumar R, Arulalan T, Krishna AchutaRao
MBD – OR12	17:33 to 17:45 Hrs	Impact of the variability of bio-optical properties, nutrient loading on phytoplankton size class and its remote estimation in a monsoon estuary-A case study from the South-West coast of India	Soumya K. P, S. S. Shaju, P. M. Ashraf, N. P. V. Nagamani
MBD – OR13	17:45 to 17:57 Hrs	Seasonal variation of phosphorus cycling in Ashtamudi estuarine system: Insights from fractionation analysis	Vishnuja S, Anju Suresh, Anjana K R, Allen T Simon, Habeeb Rahman K
MBD – OR14	17:57 to 18:09 Hrs	Effect of tropical cyclone on oxygen minimum zone over the Arabian Sea	Bhanu Priya Boipai, Sachiko Mohanty
<b>Poster Session (OCC-PR 15 to MPR-PR 23) 16:45 to 17:45 Hrs</b>			
OCC – PR 15		Preliminary assessment of the sedimentary environment in the Southeastern Arabian Sea using organic components in the sediment core	Likhil A C, Arun T J, Reji Srinivas, K Sajan
OCC– PR 16		Chemical weathering and associated CO <sub>2</sub> consumption rates of Karamana River draining southern granulite terrain, India	B. Upendra, M. Ciba1, S. Rahul, V. Arun, K. Anoop Krishnan
OCC – PR 17		Impacts of climate change on fisheries	Binal Rajeshbhai Khalasi
OCC – PR 18		Climate change impacts on the biophysics and economics of world fisheries	Prabhutva Chaturvedi, Binal Rajeshbhai Khalasi, Mayurkumar U. Tandel
OCC – PR 19		Gene expression analysis of salt adaptation in the spotted Euryhaline Cichlid, <i>Pseudotropheus maculatus</i> (Bloch, 1790)	Busheera P and Dr.Anu Augustine
OCC – PR 20		Climate change and fisheries: An awareness study among fisheries graduates	Shalumol Salas, Chitra Soman, Harsha Haridas
MBD- PR 21		An overview of the wadge bank hydrography, dynamics and the environment	Sriram Anthoor, Anju Sebastian, Muraleedharan K. R, Jyothibabu. R
MPR- PR 22		Live bait pole and line tuna fishery: A review on the traditional ecological knowledge of the Lakshadweep fishermen	Selva Clinton T, Shalumol Salas
MPR- PR 23		Empowering sustainability: Reimagining fuel subsidies for Tamilnadu's fisheries sector	Archana R, Sethulakshmi C S

## Cultural Events

### Dinner

**DAY – 2 (9 April 2024) (FN & AN)**

**Plenary Session Venue : School of Marine Science (SMS) Auditorium**

<b>Schedule</b>		
<b>Session Chair: Prof. (Dr.) A.A. Mohamed Hatha, Director, School of Marine Sciences, CUSAT</b>		
<b>Time</b>	<b>Talk title</b>	<b>Presenter</b>
9.30 to 10.15 Hrs.	Plenary Lecture 1	<b>Dr. A. Biju Kumar, Professor and Head, Kerala University</b>
10:15 to 11.00 Hrs.	Plenary Lecture 2	<b>Dr. V J. Rajesh, IIST, Trivandrum</b>
11.00 to 11.15 Hrs.	<b>Tea Break</b>	

**Session Venues: SMS, CIFNET, NCAAH, MGD, POD, DAS**

**SMS** : School of Marine Sciences Auditorium, Academic Block 1, Fourth Floor  
**CIFNET** : Central Institute of Fisheries Nautical and Engineering Training Auditorium, Ground Floor  
**NCAAH** : National Centre for Aquatic Animal Health, Academic Block 2, Fourth Floor  
**MGD** : Dept. of Marine Geology and Geophysics, Academic Block 2, Fifth Floor  
**POD** : Dept. of Physical Oceanography, Academic Block 2, Sixth Floor  
**DAS** : Dept. Atmospheric Sciences, Academic Block 2, Seventh Floor

**DAY-2 (KN: Key Note; OR: Oral & PR: Poster)**

**Date: 9 April 2024**

**Venue: SMS**

<b>Focal Theme: Marine Pollution and Ecotoxicology (MPE)</b>			
<b>Session Chairs: Dr. E.V. Ramasamy, Mahatma Gandhi University, Kerala Dr. Lekshmanaperumalsamy, Bharathiar University, Coimbatore</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>MPE-KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>Marine organism in various environments and migratory ecology of fish in temperate regions: example of Sado Island, Sea off Japan</b>	<b>Dr. Midori Iida, Niigata university Japan</b>
<b>MPE-KN 2</b>	<b>11.45 to 12.15 Hrs</b>	<b>Ecotoxicology and monitoring of pollutants in the marine environment</b>	<b>Dr. Mahesh Mohan, MG University Kerala</b>
MPE-OR1	12:15 to 12:27 Hrs	Seasonal dynamics of microplastic pollution in the water and sediment of Sambranikodi mangrove island, Kerala	Gopika Sivan, Jestin MS, Muhammed Shafeer M, Priyaja P
MPE-OR2	12:27 to 12:39 Hrs	Importance of public behaviour and awareness on mitigating water-associated diseases and faecal contamination in Lakshadweep Island	Rahmathunnisa Edayakkal, Jibin James, Kiran Krishna, Nihad MP, Muhsin AI, Pookoya P, Anas Abdulaziz
MPE-OR3	12:39 to 12:51 Hrs	Inter-annual variations of trace metals in edible sea urchin <i>Tripneustes gratilla</i> , from a tourist beach along South west coast of India	Aneena Yesudas, Vidyalakshmi D, Priyaja P
MPE-OR4	12:51 to 13:03 Hrs	Investigations of bacteriological quality of flood-affected water bodies with special reference to multidrug-resistant waterborne pathogens	Jesmi Yousuf, Hafsa K, Jasna Vijayan, Sumayya N.S, Dhanya K, Farsana A, Shahana Kabeer S, Mohamed Hatha A.A
<b>Lunch Break: 13.00 to 14.00 Hrs</b>			
MPE-OR5	14:00 to 14:12 Hrs	Assessment of heavy metal pollution in Beypore Estuary sediments: implications for environment management	Gayathry OS, Helna Margrette Thekkedath, Ratheesh Kumar CS, Shameem K
MPE-OR6	14:12 to 14:24 Hrs	Seasonal distribution and metal-ligand interaction in the surface sediments of River-Estuary continuum Southwest coast of India	Manu Mohan, Shameem K, Martin GD, Muraleedharan Nair
MPE-OR7	14:24 to 14:36 Hrs	Acute toxicity of ethion 50% EC on <i>Oreochromis niloticus</i>	Chandrika Cherenga, Sudha Kappalli
MPE-OR8	14:36 to 14:48 Hrs	A study on abundance of microplastics ingestion in commercially important fishes along Karnataka, Southwest coast of India	Sanjay Kumar, Mridula Rajesh, H N Anjanayappa, K M Rajesh, Ahamed Rasheeq, Pratiksha Singh, Martin Xavier



MPE-OR9	14:48 to 15:00 Hrs	Assessment of microplastic contamination in jellyfish <i>Crambionella orsini</i> along the South Kerala coast	Chitra Som RS, Devika P Uday
MPE-OR10	15:00 to 15:12 Hrs	Combating marine plastic pollution: community-led efforts towards sustainable ocean conservation	Ekparna Das, Gayathri M S, Hareesh N Ramanathan
MPE-OR11	15:12 to 15:24 Hrs	Distribution of microplastics in the surface water of Ashtamudi Lake, a RAMSAR site in Kollam, Kerala.	Gayathry S, Pathiserry John Sarlin, Jeniffer Ann Thomas
MPE-OR12	15:24 to 15:36 Hrs	Marine applications of carbon nanodots in heavy metal sensing	Sandra Manoharan, Shaju S S, Ashraf
MPE-OR13	15:36 to 15:48 Hrs	Ecotoxicological evaluation of antifouling biocides on the <i>Villorita cyprinoides</i> var <i>Cochinensis</i> as pollution indicator in the Cochin Estuary-Southwest coast of India	Deepulal PM, Hari Shanker HS, Gireesh Kumar TR, Sujatha CH.
MPE-OR14	15:48 to 16:00 Hrs	Assessment of seasonal variation and toxicity potential of Polycyclic Aromatic Hydrocarbons (PAHs) in surface sediment of Ashtamudi Wetland, South-West Coast of India	Anju Suresh, Vishnuja S, Anjana K Ra, Habeeb Rahman K
<b>Tea break 16:00 to 16:15 Hrs</b>			
MPE-OR15	16:15 to 16:27 Hrs	Fractional distribution and mobility of heavy metals in Ashtamudi estuary sediments, implications of ecological risk Assessment	Anjana KR, Habeeb Rahman K, Vishnuja AS, Anju Suresh
MPE-OR16	16:27 to 16:39 Hrs	Spatial Distribution of Microplastics in the Surface Sediments of Bhitarkanika Wildlife Sanctuary, Eastern India	Medha Manoswini Das, Gokul Valsan, Anish Kumar Warriar, Rakesh Kumar
MPE-OR17	16:39 to 16:51 Hrs	Spatiotemporal dynamics and ecological risk assessment of microplastics in the industrially polluted cuddalore coast, southeast India	Emmanuel Charles Partheeban, Rajaram Rajendran
MPE-OR18	16:51 to 17:03 Hrs	Untargeted metabolomics-based risk assessment of exposure to environmentally relevant concentrations of endocrine disruptor compound exposome as against exposure to a single compound	Nasreen Nazar, Niladri Sekhar Chatterjee
MPE-OR19	17.03 to 17:15 Hrs	Distribution, sources, and ecological risks of Polycyclic aromatic hydrocarbons in the coral reef ecosystems of the Lakshadweep Archipelago	Vignesh ER, Gireesh Kumar TR, Arya KS, Midhun M Nair, Rakesh PS
MPE-OR20	17.15 to 17:27 Hrs	A case study on the seasonal distribution of microplastics in the water column of two tropical estuaries in Southern India	Vishnu Unnikrishnan, Anusree S, Gokul Valsan, Manu Martin Paul, Anjali Tamrakar, Anish Kumar Warriar
MPE-OR 21	17.27 to 17:39 Hrs	Multiple stressors have the potential to influence species survival: A functional trait perspective on ehippia of planktonic microcrustacean <i>Daphnia magna</i>	Sreevidya CP, Manoj Kumar TM, Ajitha V, Jayesh Puthumana
MPE-OR 22	17.39 to 17:51 Hrs	Microplastic pollution in the sediments of beaches in Dapoli City of Maharashtra, the western peninsular region of India	Abhinab Borah, Omkar Mohan Hande, Shanmuganathan Jayakumar, Suja Purushothaman Devipriya*
<b>Poster session (MPE PR 23 to 53) 16:00 to 18:00 Hrs</b>			
MPE-PR23		Studies on microplastic composition and its abundance in the mangrove ecosystem of Kumbalangi, Kochi	Amlu Fahidha MP, Archana A Nair, KP Soumya, PM Vipin, SS Shaju



MPE-PR24		A comparison of dissolved oxygen simulations using regional physical-biogeochemical models and copernicus marine service data products	Akash S, Ranith R, Ajith Joseph K1, Annette Samuelsen, Grinson George3 and Nandini Menon N1*
MPE-PR25		A study on the resistivity shown by the bacteria isolated from the sediment samples collected from Cochin estuary against different classes of Antibiotics.	Ajil Benny
MPE-PR26		Seasonal variation in Antibiotic Resistance Patterns of bacterial Isolates from the central Region of Cochin Estuary	George Sebastian, Amritha Santhosh, Sumayya AS, Ajil Benny, Meera VT, Chaithanya ER
MPE-PR27		Antibiotic resistance profiling of central Cochin estuary: a culture dependent approach	Amritha Santhosh, George Sebastian, Sumayya A S, Ajil Benny, Meera V T, Chaithanya E R,
MPE-PR28		Assessment of human health risk due to mercury bioaccumulation in finfishes of Cochin Estuarine System, India	N Deepak Sankar, KV. Neethu, Hanse Antony, EH Aravind, S Bijoy Nandan, SR Marigoudar, KV Sharma
MPE-PR29		Toxicity effects of manganese (Mn) on biomarker responses in post-larvae of <i>Penaeus monodon</i> (Fabricius, 1798)	Hanse Antony, K V Neethu, N Deepak Sankar, S Bijoy Nandan, SR Marigoudar
MPE-PR30		Toxicological effects of cadmium on the green mussel <i>Perna viridis</i> (Linnaeus, 1758): Insights for drafting Seawater quality criteria	Kariyil Veetil Neethu, Punnakkal Hari Praved, Dilshath Raihana, Sivasankaran Bijoy Nandan, Shambanagouda Rudragouda Marigoudar
MPE-PR31		Seasonal assessment of microplastic pollution in water and sediment of coastal beaches along North Kerala	Anjana Krishna RS, D Vidyalakshmi, Aneena Yesudas, Gopika Sivan, Priyaja P
MPE-PR32		Heavy metal distribution in the suspended particulate matter along coastal waters of Calicut, South Eastern Arabian Sea	Akhil A, Asmiya C Jamal, Minu P, Prabhakaran MP
MPE-PR33		Microplastics associated biofilm along the mangrove stretches of Vembanad Lake	Nisha R, Pooja Udayan, Anu Gopinath
MPE-PR34		Microplastics characterisation from the water column and sediments of South Eastern Arabian Sea	Pooja Udayan, Nisha R, Anu Gopinath
MPE-PR35		Identification and characterization of microplastics from Kole wetlands, Kerala	Anna Joju, Reshma Santhosh, Resmi P, Anu Gopinath
MPE-PR36		Abundance, distribution, and characterization of microplastics in coastal surface waters of Goa, India	Niyati Kalangutkar, Ashita Salgaokar, Divya Fulari
MPE-PR37		Microplastic pollution in the surface waters of a tropical micro-tidal estuary on the South-west coast of Kerala, India across a gradient of human impact	Amarjith A, Roshni K, Renjithkumar CR, Madhuraj PK, Suja P Devipriya
MPE-PR38		Distribution and characterization of microplastics in the sediments of a highly disturbed tropical estuary on the South-West coast of Kerala, India	Athira PU, Roshni K, Renjithkumar CR, Amal R, Suja P Devipriya
MPE-PR39		Impacts of bioaccumulation and excretion of microplastics in coral health	Pramatha HP, Chinnarajan Ravindran
MPE-PR40		Concentration of various metals in the sediment and water of Thondi coast, Palk Bay, India	Smruti Sudha Chand, Madhuchhanda Kundu, Rajendran Rajaram, Sadayan Paramasivam

MPE-PR41		Acephate pesticide's sublethal effects on <i>Cyprinus carpio</i> (Linnaeus, 1758) and other modifications	Bhooleshwari, Shivakumar M, Narendra Kumar Maurya, Lakshmipathi MT, TS Annappaswamy
MPE-PR42		Assessing the impact of microplastic pollution on the coastal ecosystems of Kerala	Jeslin George, Shibin Mohanan
MPE-PR43		Evaluating the potential of aquatic macrophytes ( <i>Pistia stratiotes</i> L and <i>Eichhornia crassipes</i> ) for phytoremediation of metal pollution (Cadmium and Lead)	Narendra Kumar Maurya, Shivakumar M, Bhooleshwari, Lakshmipathi MT, TS Annappaswamy
MPE-PR44		Heavy metal pollution abatement using biofilm: New trends and approaches bioremediation	Revathy PK, Kurian Mathew Abraham
MPE-PR45		A case study on assessment of marine litter in some selected beaches of Uttara Kannada district Karnataka	Sujal K Revankar, J L Rathod
MPE-PR46		Microplastic distribution in coastal environment: a case study of beach and mangrove sediments in Kollam district, Kerala	Ajeesha A Asiz, S N Sruthi, Kavya V G, Parvathy S, Sangeetha Sivan, M S Shylesh Chandran
MPE-PR47		Amino acid-based Carbon dots for fluorometric Cu <sup>2+</sup> ion sensing in water bodies	Sreena Vijay, Dhanya P Jacob, Aldrin Antony
MPE-PR48		Pollution assessment and source identification of vanadium in the surface sediments of off Kochi using geochemical and PMF approach	Princy M John, Vishnu Murali, Kunal Chakraborty, Aneesh Lotlikar, Anu Gopinath
MPE-PR49		Hydrophytes as potential vectors of multi-drug resistant water associated pathogens: An example from Vembanad lake	Aadhila V, Seetha Lakshmi PS, Nizam Ashraf, Anas Abdulaziz
MPE-PR50		Possibilities of <i>Shewanella</i> sp. derived pyomelanin in remediating textile wastewaters	Anas Abdulaziz, Jibin James, Silpa Chandran
MPE-PR51		Vertical distribution and seasonal variation of microplastics in the water column along the Southwest coast of India	Nikhil VG, Ranjeet K
MPE-PR52		Spatial distribution of microplastics in the surface sediments of Bhitarkanika Wildlife Sanctuary, Eastern India	MA Ezhil Arasu, A Yogeshwaran, K Anandh, T Muralisankar
MPE-PR53		Investigation on contamination and spatial distribution of heavy metals in sediments from Beypore Estuary	Gopika P, Meera V

**DAY-2 (FN) (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 9 April 2024**

**Venue : CIFNET**

<b>Focal Theme: Marine biodiversity and Conservation (MBC)</b>			
<b>Session Chair: Dr. K Sunilkumar Mohamed (Principal Scientist Retd. CMFRI)</b>			
<b>Co-Chair: Dr. Priyaja P, Assistant Professor, CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>MBC-KN 1</b>	<b>11.15 to 11.45 Hrs</b>	<b>Negating the hoax around the Blue Economy from the challenges in ecosystem Conservation to Sustainable utilization of resources</b>	<b>Dr. Suresh Kumar, Dean, Kerala University of Fisheries and Ocean Studies (KUFOS)</b>
<b>MBC-KN 2</b>	<b>11.45 to 12.15 Hrs</b>	<b>Ecosystem ecology of some Fascinating Features in the Indian Sea</b>	<b>Dr. Jyothibabu, Scientist-in Charge, National Institute of Oceanography (NIO), Kochi</b>
MBC-OR 1	12.15 to 12.27 Hrs	Vertical distribution and migration of pteropods in the Eastern Arabian Sea	Arundhathy M, Jyothibabu R, Rashid CP, Aparna S, Vidhya V, Arunpandi, N.
MBC-OR 2	12.27 to 12.39 Hrs	Conservation implications of the scalloped hammerhead shark ( <i>S. lewini</i> ) fishery along the south west coast of India	Abisha C , Murali Krishna, Ranjeet K, Rajeev Raghavan
MBC-OR 3	12.39 to 12.51 Hrs	New discoveries of brittle stars (Echinodermata: Ophiuroidea) from the Central and Southwest Indian Ridges	Usha V. Parameswaran, Periasamy R. and Baban S. Ingole
MBC-OR 4	12.51 to 13.03 Hrs	Calcium precipitation by coral associated bacteria and their implications for reef formation	Rashitha Razak P, Nizam Ashraf, Anas Abdulaziz
<b>Lunch Break 13.00 to 14.00 Hrs</b>			
MBC-OR 5	14.00 to 14.12 Hrs	Seasonal assessment of crustacean diversity along Sandkhhol sandy shore, Ratnagiri, Maharashtra	Vaijnath Aitwar, Aniruddha Adsul, Milind Sawant, Anil Pawase and Digvijay Chauhan.
MBC-OR 6	14.12 to 14.24 Hrs	Bioprospecting and characterization of urease and carbonic anhydrase bacteria, and their precipitation structural dynamics during microbial-induced calcium carbonate precipitation.	Paul M, and Parvathi A.
MBC-OR 7	14.24 to 14.36 Hrs	Rhizosphere and root-endophytic bacteriomes of a tropical true mangrove <i>Rhizophora</i> sp. as revealed by metagenomic profiling	Wafha K. Asees, Devika Raj K, Anas Abdul Aziz, Jasmin C., Baby Divya
MBC-OR 8	14.36 to 14.48 Hrs	Microbiome analysis of black clam ( <i>villorita cyprinoides</i> ) from vembanad lake: A comparative study between its harvesting locations.	Neenu P., Parvathi A.
MBC-OR 9	14.48 to 15.00 Hrs	Diversity and distribution of gobioid fauna (Teleostei: Gobiiformes) from different ecological niches of Tamil Nadu coast, India	Sivakumar Ragul, Gopalan Mahadevan, Arumugam Murugan
MBC-OR 10	15.00 to 15.12 Hrs	The Faunal diversity of Water hyacinth ( <i>Eichhornia crassipes</i> ) roots from different stations of Ernakulum and Alappuzha district.	Fathima A., Gouri Nandana., Rihana CR., Radhika R

MBC-OR 11	15.12 to 15.24 Hrs	Health assessment criteria for the Indian mangroves: A case study from kadalundi mangroves	Sheethal, K.S., Sreeraj, C.R., Sanu Sharbin, K.M and Limna Mol, V. P
MBC-OR 12	15.24 to 15.36 Hrs	Chondrilla mixta Schulze, 1877 (Chondrosida: Chondrillidae): first report of the supposedly cosmopolitan sponge from Lakshadweep Islands, India	Raveendran Sree Vishnu, V. P. Limna Mol, Titus Immanuel, K. S. Shabeena, Emilda Rosmine, K. R. Abhilash, S. Sureshkumar
MBC-OR 13	15.36 to 15.48 Hrs	Optimizing Mesh Size Selectivity & Length Frequency for Sustainable Clam Fishery (Villorita cyprinoides) along Vembanad Lake, Kerala.	Megha Madhav A, Mohammed Jabir K. K. A Sunbula Kareem A., and Madhu V. R. A.
MBC-OR 14	15.48 to 16.00 Hrs	Observations on mass swarming and length-weight relationship of <i>Charybdis smithii</i> (Decapoda: Brachyura) in relation to sex and carapace length along the west coast of India.	Mohammed Jabir K. K, Prajith K. K., Megha Madhav., Sunbula Kareem and Madhu V. R.
<b>Tea Break 16.00 to 16.15 Hrs</b>			
MBC-OR 15	16.15 to 16.27 Hrs	Marine tube dwelling diatom <i>Nitzschia martiana</i> (C.A Agardh) Van Heurck (Nitzchiaceae-Bacillariophyta) in mangrove environments of South Andaman, India	Manjumol C. C, Limnamol V.P, K.A Jayaraj
MBC-OR 16	16.27 to 16.39 Hrs	Ecology and systematics of two colonial zoanthids from Kollam, Kerala, South west coast of India.	Mariyam Johna J, Baiju PT, Sethu MR, Shireen P Mohammad, VP Limnamol
MBC-OR 17	16.39 to 16.51 Hrs	Spatial assessment of avifauna diversity associated with Central Vembanad Lake System during Monsoon Season	Sethu M. R., Alok K., Abhirami Muraledharan, Baiju P. T., Limna Mol V. P.
MBC-OR 18	16.51 to 17.03 Hrs	Spatial variability in mesozooplankton assemblage in the Northern Arabian Sea with special reference to Thaliaceans.	Suhaana M. Nazar, Haripraved P. , and S. Bijoy Nandan
MBC-OR 19	17.03 to 17.15 Hrs	Record of Cnidarians, <i>Aequorea pensilis</i> (Haeckel, 1879) and <i>Netrostoma coerulescens</i> (Maas, 1903), from the Jaigad, Ratnagiri, West Coast of Maharashtra, India	Aniruddha Adsul, Prathamesh Ade, Milind Sawant, Sudhakar Indulkar, Digvijay Chauhan, Saurabh Rawool
MBC-OR 20	17.15 to 17.27 Hrs	Diversity and ecological dynamics of seaweed-associated macrofauna in the intertidal rocky shore of Bhatkarwada, Ratnagiri (Maharashtra)	Chandni Roy Dutt, A. D. Adsul, M. S. Sawant, A. S. Pawase, H. B. Dhamagaye, S. T. Indulkar
MBC-OR 21	17.27 to 17.39 Hrs	Cultivable bacterial flora associated with potentially toxic haptophyte- <i>Prymnesium parvum</i>	Afnitha K H, M. Abhijith, Renju Mohan and Lathika Cicily Thomas
<b>Poster Session (Poster MBC-PR 37 to 62) 16.00 to 18.00 Hrs</b>			
MBC-PR 37		Water quality estimation of beaches in Kochi, south west coast of India using changes in phytoplankton community structure	Rithin Raj M, Ranith R, Nancey Terrance, Mohammed Siyad P V P, Anas Abdulaziz, Grinson George, Shubha Sathyendranath and Nandini Menon N
MBC-PR 38		Exploring Seaweed and Molluscan Diversity and Distribution in St. Mary's Islands, Udupi: A Preliminary Study	Gouri S Mydhili., Navaneeth Francis., Muralikrishna P.M., Ann

			Maria Francis., Santu K.S. and Radhika R.
MBC-PR 39		New Record and Molecular Phylogeny of Morphologically Complex Genus <i>Coenobita</i> (Anomura: Paguroidea: Coenobitidae) from Kerala Coast, India.	Jestin M.S, Ravinesh R, Gopika Sivan, Priyaja P
MBC-PR 40		Extensive bloom of the Prymnesiophyte <i>Phaeocystis</i> and its Impact on Plankton Dynamics: A Case Study from the Coastal Waters of Northern Bay of Bengal	Haritha Prasad, Jasmine Purushothaman, Aishee Bhowal
MBC-PR 41		Juvenile Estimation of <i>Coilia dussumieri</i> Valenciennes, 1848 from Dolnet catch off Mumbai Coast	Akanksha, Asha T Landge, Shobha Rawat, Abuthagir Ibrahim S., Karankumar Ramteke
MBC-PR 42		Spatial variation of mesozooplankton distribution along the west coast of India	Haritha Prasad, Jasmine Purushothaman, Sreelakshmi S
MBC-PR 43		Microplastic analysis from sediments of southwest coast of India	Emilda Rosmine, Anaina G Raj, Sethu M.R., Shireen P Mohammed, Limna Mol V.P.
MBC-PR 44		Swarm of hydrozoa in the Nettoor region of Central Vembanad Lake, Kerala.	Antony Nirmal, Adarsh P G, Ann Mariya Anto, Kalyani B, Sibila Babu, Sreelakshmi V, V K Varundev, Alok K, Sethu M R, Ayana P P, Baiju P T, V P Limna Mol
MBC-PR 45		Liquid tree : Air quality enhancement using microalgae	Sethu M R, Alok K , Sreelakshmi K , Aiswarya Anand ,Swetha M K, Fathima K H ,V P Limna Mol
MBC-PR 46		Characterization of Extracellular Polymeric Substances from Biofilm Cultivated by Plastic-Associated Microalgae in Vembanad Lake	Ayana P P, Swetha M K, Emilda Rosemine, V P Limna Mol
MBC-PR 47		An exploratory assessment of ecological goods and services provided by coral crabs for sustaining the health of coral ecosystems	Vaishnavi S Dev, Ranjeet K
MBC-PR 48		Seasonal variation and abundance of phytoplankton along the coastal waters of southwest coast of India, off Kasargod	Nikhila K. V, Shamya N. N, Jimly C Jacob
MBC-PR 49		Some aspects of the Intertidal Macrofauna along the Mumbai Coast	Suvarna Pratik S. and Trivedi Dhara J.
MBC-PR 50		Isolation and characterization of indigenous diatom, <i>odontella</i> sp. od1 and its associated bacteria; Implications on algal biotechnology	R Amal , S V Sandhya , V M Krishna Priya
MBC-PR 51		Taxonomy of <i>Siganidae</i> family with special reference to the biology of <i>Siganus vermiculatus</i> (Valenciennes, 1835)	Habeebu Rahman P.A, T. Ganesh
MBC-PR 52		Morphology of <i>Tubuca alcocki</i> (Shih, Chan & Ng, 2018) (Crustacea: Decapoda: Ocypodidae), a pseudocryptic fiddler crab from the tropical mangrove ecosystem, with molecular evidence	Sandhya E.S*, Chaithanya E.R, Sijo P. Varghese
MBC-PR 53		Heterotrophic diversity of core sediment bacteria: A case study from Cochin estuary	Sabira PA, Jasna Vijayan, Jabir T, Sunil, PS, Mohamed Hatha AA.

MBC-PR 54		Biometric and Taxonomic Study of <i>Sardinella melanura</i> (Cuvier, 1829) and <i>Dussumieria acuta</i> Valenciennes, 1847 from the Andaman and Nicobar Islands.	Abhijith Mohan, Samrat Kalita, S Venu
MBC-PR 55		Faunal diversity of rocky shore regions along the coast of Port Blair, south Andaman islands	Unnimaya, T.Ganesh
MBC-PR 56		Spatiotemporal variation in diversity and abundance of macrobenthos in the Kadalundi estuary.	S.N. Suhana, H. Habeebrehman, K.U. Abdul Jaleel
MBC-PR 57		Morphological and molecular description of exotic Mexican Molly, <i>Poecilia Mexicana</i> (Cyprinodontiformes: Poeciliidae) from the mangrove ecosystem of the Southwest coast of India.	Sruthy V L, Mujeeb Rahiman K M, Rithin Raj M, M Harikrishnan
MBC-PR 58		Myristica swamps: Pristine environment to be explored for documenting aquatic biodiversity	Ashwin Sivasankar, Divya P.R
MBC-PR 59		Comparative Study on Biology and Biometrics of <i>Selar crumenophthalmus</i> (Bloch 1793) from Neendakara, Kerala and Andaman and Nicobar Islands.	Anakha Uday
MBC-PR 60		Opportunistic Foraging Behaviour of Lesser black-backed Gulls ( <i>Larus fuscus</i> ) from Ponnani, Kerala: A supporting evidence for 'Junk Food Hypothesis'	Nisanth H.P., A. Biju Kumar
MBC-PR 61		Report of <i>Calcinus Morgani Rahayu</i> & Forest 1999 (Crustacea: Decapoda: Anomura: Diogenidae) after 158 Years From Andaman & Nicobar Islands, India	Navyashree Aravind, Ganesh Thiruchitrabalam
MBC-PR 62		First Report Of The Commercial Sea Cucumber, <i>Bohadschia Atrata</i> (Tigerfish), from the Andaman Islands	Karthika Padmini and Ganesh Thiruchitrabalam

**DAY-2 (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 9 April 2024**

**Venue : NCAAH**

<b>Focal Theme: Advancement in Aquaculture (AAQ)</b>			
<b>Session Chair: Dr. V.V. Sugunan, DDG (Retd), ICAR</b>			
<b>Co-chair: Dr. Venu S, Associate Professor, CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>AAQ-KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>Recent advances in Mariculture: Focus on Shellfish and finfish seed production</b>	<b>Dr. M K Anil, Principal Scientist &amp; Head, CMFRI</b>
AAQ-OR1	11:45 to 11:57 Hrs	Solar power-based intensive cage culture of <i>Europlus suratensis</i> at the inland water bodies of mangrove island Kollam, Kerala, India: A feasibility study	Suresh Kunjiraman, Akshay P.S, Ambadi Kannan Maliyekkal Sajeewan, Antony Aldrinb, K. Vivek c, Valsamma Joseph and Jayesh Puthumana and. I.S Bright Singh
AAQ-OR2	11:57 to 12:09 Hrs	Enrichment of live feed rotifer <i>Brachionus rotundiformis</i> using four different marine microalgae	Elizabeth Carolin, Sruthy C. Sunil , Aneykutty Joseph, Alphi Korath
AAQ-OR3	12:09 to 12:21 Hrs	Enhanced antifouling performance of aquaculture cage nets through photocatalytic nano carbon Dot-Titanium oxide- Iron oxide coposite coating	Gopika R, Muhamed Ashraf P
AAQ-OR4	12:21 to 12:33 Hrs	New insights on the increased growth and biomass production of <i>Isochrysis galbana</i> in a consortium of <i>Acetobacter</i> and <i>Lactobacillus</i> for Aquaculture	Radhima Rajamohanan, Shoji Joseph, Anju Soma S, and Beena B Nair
AAQ-OR5	12:31 to 12:43 Hrs	Evaluation of growth and survival of <i>Pangasianodon hypophthalmus</i> at low temperature	Khalasi Yash, Ashutosh D. Deo, Manish Jayant, Naseemashahul Shamna
AAQ-OR6	12:43 to 12:55 Hrs	The Effect of Major Nutrients on the Biochemical Composition of Estuarine Diatom <i>Halamphors</i> sp. Kocielek in three levels of f medium for Aquaculture purposes	Lidiya V S, Sanilkumar M
		<b>Lunch Break 13:00 to 14:00 Hrs</b>	
AAQ-OR7	14:00 to 14:12 Hrs	Amylase from marine bacteria isolated from sediment of cochin backwater; development of bioprocess for commercial production	Anushoba Shyam, Valsamma Joseph, Jayesh Puthumana, Shibir S.P., and, I.S. Bright Singh



AAQ-OR8	14:12 to 14:24 Hrs	Application of marine bacteria-microalgal consortia for bioremediation of aquaculture effluent – a sustainable step towards Blue Economy	Elaine A. Sabu
AAQ-OR9	14:24 to 14:36 Hrs	Efficiency of Aquatic weed <i>Eichhornia crassipes</i> on growth, survival, and proximate composition of Genetically Improved Farmed Tilapia reared in biofloc system	Megha Lovejan, Mujeeb Rahiman K M, Hareesh N Ramanathan, Vishnu K Venugopalan
AAQ-OR10	14:36 to 14:48 Hrs	Effect of Solid state fermented Soybean meal with yeast, <i>Saccharomyces cerevisiae</i> on growth and nutrient utilisation in <i>P.vannamei</i>	Syama Dayal J, Joel Joseph Prasad, Sujeet Kumar, Ambasankar K, Abhaya Robinson, Aswath Rayarothan
AAQ-OR11	14:48 to 15:00 Hrs	Comparison of Growth of Asian Seabass, <i>Lates calcarifer</i> (Bloch, 1790) in open-water cages with different feeds	Priya. NP, Shoji Joseph, Ajithkumar. P.B.
AAQ-OR12	15:00 to 15:12 Hrs	Fatty acid profile and population development of copepod <i>P. malayalus</i> fed on different microalgal diets	Anju Soma S, Shoji Joseph
AAQ-OR13	15:12 to 15:24 Hrs	Effect of culture media, light intensity, and photoperiodicity on the polyunsaturated fatty acid profile of marine microalgae <i>Chaetoceros calcitrans</i>	Elizabeth Carolin, Aswathy Krishnan, Aneykutty Joseph, Alphi Korath
AAQ-OR14	15:24 to 15:36 Hrs	Evaluation of formulated pellet feed and squid meat on the growth and biochemical parameters in picnic Seabream, <i>Acanthopagrus berda</i>	Anuraj A, Sanal Ebenezeer, Suresh Babu P P, Kurva Raghu Ramudu, Srinivasa Rao K, N G Vadiya
AAQ-OR15	15:36 to 15:48 Hrs	Use of internet of things and machine intelligence for water quality monitoring in shrimp aquaculture	M. Muralidhar, Neeraj Kumar, G. R. Kanagachidambaresan, P. Kumararaja, J. Ashok Kumar, A. Nagavel, M. Dharmadurai and, C. Kumar
AAQ OR 16	15:48 to 16:00 Hrs	Utilization of PmLyO-Sf9 cells for the cryopreservation of IHHNV (Infectious hypodermal hematopoietic necrosis virus / PstDVI) and MBV (Monodon baculo virus / PmNV) for long term storage	Diya Dominic D.V, Muneer A ., Ahna Ameer , Linu Eldho , Sajeevan T.P., Jayesh Puthumana , Valsamma Joseph, Rosamma Philip , I.S. Bright Singh
		<b>Tea Break 16:00 to 16:15 Hrs</b>	
		<b>Poster session (AAQ-17 to 36) 16:00 to 18:00 Hrs</b>	



AAQ-PR17		Study of rearing and breeding of Angel fish ( <i>Pterophyllum scalare</i> ) SCALARE) in glass aquarium: A sustainable income source for student entrepreneursI	Nandana K. N; Ashmin Antony; Avani Vasanth;; Mariya Femi; Jayakrishnan P.M. and Santu K.S.
AAQ-PR18		Advancements in recirculatory aquaculture system towards sustainable aquaculture	Na i sabet Dohtdong, Ayushi Bhardwaj and Ashutosh Danve.
AAQ-PR19		Nannobubble Technology: Revolution in aquaculture for enhanced fish health and production	Ayushi Bhardwaj, Na i sabet Dohtdong, Vipul Singh Badgujar and Ashutosh Danve.
AAQ-PR20		Diversity and abundance of Ammonia Oxidizing Archaea (AOA) in aquaponics systems	Jifiriya M. J, Bini C Das, Rejish Kumar V. J
AAQ-PR21		Nanobubble Technology: An Ultrafine Solution to Emerging Challenges in Aquaculture	Guntapalli Sravani, Kamil Akamad D, Uppalanchi prasanna Laxmi, Kurapati Nagendrasai
AAQ-PR22		A sustainable protein solution: utilizing black soldier fly as protein source	Fathima Khalzami E.A., Bindhi S. Kumar, Avani Vasanth, Adith Albert, Vyshak K.T. and Aiswarya
AAQ-PR23		Isolation and identification of a probiotic bacteria from the gastro intestinal tract of Snubnose pompano, <i>Trachinotus blochii</i>	Rinsiya.N and Imelda Joseph
AAQ-PR24		Exploring the effects of salinity on survival and reproductive characteristics of <i>Artemia</i> populations in laboratory conditions	Adithya P.S., Muralikrishna P.M., Navaneeth Francis, Nandana Sanil, Nandana K.N., Santu K.S
AAQ-PR25		Efficacy of closed water depuration system to depurate <i>Villorita cyprinoides</i> from Cochin estuary	Kavya. K, Arya Raj, Athira Suresh, Soumya. K, Jasna Vijayan, Jesmi Yousuf, and A.A. Mohamed Hatha
AAQ-PR26		Enhancing aquaculture sustainability: Investigating the impact of synthetic peptide Thymosin on microalgae growth	Anjali V P 1 , Navya Raj 1 , Noorjahan K.K 1 , Anne Maria Thomas 1 ,Sruthy C Sunil 1 , Dhanya Lenin K L 1 , Swapna P. Antony 1*
AAQ-PR27		Manipulation of sex in dwarf Gourami, <i>Trichogaster lalius</i> (HAMILTO,1822)	Bhargav, Nithin J. S, Shivani D. Gowda, Adarsh K Moger and N. Basavaraja

AAQ-PR28		Quantitative Analysis of Hydrolases Mediating Digestion in Artemia Nauplii: A Premier Live Food for Aquaculture	Sruthy C. Sunil, Chaithanya E.R., Preetha Shenoy, Sijo P. Varghese
AAQ-PR29		Effect of Yeast fermentation of sunflower oil cake on growth and nutrient utilisation in <i>P.Vannamei</i>	Syama Dayal J, Sakthivel S, Sujeet Kumar, Ambasankar K, Joel Joseph Prasad, Abhaya Robinson, Aswath Rayarothan
AAQ-PR30		Food and feeding habits of <i>Abudefduf vaigiesis</i> (Quoy & Gaimard, 1825)	Rajesh N., Boby Ignatius, Suresh Babu P.P., Anuraj A., Anikuttan K. K.
AAQ-PR31		Effect of salinity on the Reproduction and Population Growth of Cladocera <i>Diaphanosoma celebensis</i> Stingelin, 1900	Harikrishna, N.H., K. Madhu., Rema Madhu
AAQ-PR32		Antibacterial photodynamic therapy(aPDT): A non-thermal technology for bacterial inactivation in seafood	C. Megha, T.K. Anupama, S. Remya, K. Reshmi, Toms C Joseph
AAQ-PR33		“Effect of Melatonin on The Reproductive Performance of <i>Devario aequipinnatus</i> (McClelland, 1839)”	Khusbu Samal, Pradyut Biswas, Reshmi Debberma, Soibam Khogen Singh
AAQ-PR34		Marketing challenges in Tilapia farming: A qualitative case study from Kerala	Anagha Raju, Benno Pereira F G
AAQ-PR35		Larval rearing of giant mud crab <i>Scylla serrata</i> (Forsskal, 1775) from Megalopa to crab instar using Artemia nauplii enriched with three different marine microalgae.	Elizabeth Carolin, Aneykutty Joseph, Alphi Korath
AAQ-PR36		Fungus-bacterium association in the production of cellulase detected in a brackish water sediment: A case study	Sahil, Valsamma Joseph, Jayesh Puthumana, Shibin S.P. and I.S.Bright Singh

**DAY-2 (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 09 April 2024**

**Venue : MGD**

<b>Focal Theme: Remote Sensing Applications in Earth System Sciences (RAE)</b>			
<b>Session Chair: Prof. (Dr.) Girish Gopinath, KUFOS, Kochi</b>			
<b>Co-chair: Dr. Joji V S, Associate Professor, CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>RAE - KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>Geospatial technology for Earth system sciences</b>	<b>Prof. (Dr.) Girish Gopinath, KUFOS, Kochi</b>
RAE - OR1	11:45 to 11:57 Hrs	Soil erosion susceptibility zonation of Muthirapuzha river basin of Western Ghats using multi criteria analysis and geographic information system.	Ashitha Anand, Baiju K R, Abin Varghese
RAE - OR2	11:57 to 12:09 Hrs	The role of soil parameters in the landslide modelling an xAI approach.	Achu A L, Girish Gopinath
RAE - OR3	12:09 to 12:21 Hrs	Multplatform observations of convective precipitating system: An analysis on intensity, vertical structure, and microphysical characteristics.	Sumesh R.K, Resmi E. A, Gadha Gopan, Dharmadas Jash, Nita Sukumar
RAE - OR4	12:21 to 12:33 Hrs	Net primary productivity estimation for the heterogenous landscape of Thodupuzha taluk, Kerala.	Amalu Shaju
RAE - OR5	12:33 to 12:45 Hrs	Long-term changes in the surface temperature and land-use patterns across the Indian subcontinent.	Roshny Antony, Satheesan K And Ajil Kottayil
RAE - OR6	12:45 to 12:57 Hrs	Assessment of drainage network characteristics of Pennar river, Eastern Ghats, South India	Jithin George, Anish A U, Varsha Vijayan, Baiju K R, Nighil S
<b>Lunch Break 13:00 to 13:45 Hrs</b>			
RAE - OR7	14:00 to 14:12 Hrs	Exploring remote sensing technique to locate the species-specific potential fishing grounds in the North-Eastern Arabian Sea	P. Abdul Azeez, Mini Raman, Prathibha Rohit, Latha Shenoy, K. Mohammed Koya, Vinay K. Vase, P.S. Swathi Lakshmi, Shoba J. Kizhakudan
RAE - OR8	14:12 to 14:24 Hrs	Assessing urban growth and its impacts on surface urban heat island in the Cochin region, Kerala (India)	Peediyakkathodi Sajna, Krishnamohan K S, Asif Musthafa
RAE - OR9	14:24 to 14:36 Hrs	Application of UAV technology for 2D mapping of mangroves and invasive species in Pappakanni estuary, Manora, Tamil Nadu	Joyce Scaria, Erica Royce, Barbara J, Kiran Thomas Mathew, Balaji Vedharajan

		<b>Poster Session (RAE PR-10 to 14) 14:48 to 16:00 Hrs</b>	
RAE – PR 10		Instrumental error quantification for Spectral-Width-Based UTLS turbulence measurements with ST radar	Sujithlal S.P, Satheesan K, Ajil Kottayil, Avinash Paul, Ajilesh Parolla, Ahana K.K, Rakesh V, Sarathkrishna S, Rejoy Rebello.
RAE – PR 11		Understanding mid-tropospheric turbulence from 205 MHz S-T Radar at Kochi, India.	Ahana K K, Satheesan K, Ajil Kottayil
RAE – PR 12		Crustal deformation and lava flow associated with the 2022 Mauna Loa (Hawaii) volcanic eruption using Interferometric and Polarimetric analysis of EOS-4 and Sentinel-1 SAR data	Sreerag S.S., K. M. Sreejith, Sriram S. Bhiravarasu, R. Agrawal, M.C.M. Jasir, K. M. Agrawal, P. Parashar, Q. Saquib, D. Putrevu and V. M. Ramanujam
RAE – PR 13		Utilization of satellite data and in-situ buoy data for the performance evaluation of the global WAVEWATCH III model	Akshara Santhosh, Sandhya K G
RAE – PR 14		Comprehensive exploration of crustal deformation and ionospheric perturbations linked to the 6 February 2023 Kahramanmaraş earthquake doublet in South-Eastern Türkiye	Sunil A. S., P. S. Sunil, M. S. Rose, K. M. Sreejith, Mahesh N Shrivastava, and Tuncay Taymaz
		<b>Tea Break 16:00 to 16:15 Hrs</b>	

**DAY-2 (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 09 April 2024**

**Venue : POD**

<b>Focal Theme: Quaternary Environment and Paleoclimate (QEP)</b>			
<b>Session Chair: Dr. Linto Alappat, Assistant Professor, Christ College, Irinjalakuda, Kerala</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>QEP - KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>Late Quaternary stratigraphy and chronology of coastal sediments of South India: Implications of Sea level and Tectonics</b>	<b>Dr. Linto Alappat Assistant Professor Christ College, Irinjalakuda, Kerala</b>
QEP - OR1	11:45 to 11:57 Hrs	Paleo-weathering and paleoclimate during Late Quaternary period inferred using mineral magnetic properties of the continental shelf sediments along the South-Eastern coast of India.	K.V. Reshma, K.J. Ammoose, A.K. Rafaz, K. Sandeep, A.V. Sijinkumar, Jithin Jose, P.J. Kurian, Rajveer Sharma
QEP - OR2	11:57 to 12:09 Hrs	Extant and sub-fossil coccolithophores in the Indian sector of the Southern Ocean and governing factors.	Dr. Pallavi Choudhari, Dr. Rahul Mohan, Dr. Shramik Patil, Dr. Abhilash Nair
QEP - OR3	12:09 to 12:21 Hrs	Reconstruction of late quaternary paleoclimatic variability from the sedimentary archive of the Western Bay of Bengal.	Nayana V Haridas, Upasana S Banerji, D Padmalal, Maya K, John Kurian P, Ravi Bhushan, Ankur J Dabhi, Deepak Kumar Agarwal
QEP - OR4	12:21 to 12:33 Hrs	Climatic repercussions of central equatorial Indian Ocean (CEIO): A clue to Mid Pleistocene Transition (MPT).	Puja Vijay, N.R. Nisha
QEP - OR5	12:33 to 12:45 Hrs	Are Ostracoda good registers in reading the paleoenvironmental changes? A case study using electron probe micro analysis (EPMA).	Mohammed Noohu Nazeer, S.M. Hussain, S.G. Dhanil Dev, N. Mohammed Nishath, P.U. Naveen, Honey H. Das, Selvia Kuriakose
<b>Lunch Break 13:00 to 13:45 Hrs</b>			
<b>Poster Session (QEP PR-06 to 10) 14:00 to 15:00 Hrs</b>			
QEP - PR6		Radiolarians of the Northwestern Bay of Bengal and their monsoonal variations during the Holocene.	Veena G Viswam, NR Nisha
QEP - PR7		Last 28 ka paleo productivity pattern of the central Prydz Bay, reconstructed through sedimentary inorganic proxies.	T. Sarathchandraprasad, Manish Tiwari
QEP - PR8		Unveiling paleoclimate of Southern Ocean using diatoms as a proxy.	Juyee G. Priolkar, Pooja Ghadi, Xavier Crosta, Rahul Mohan
QEP - PR9		Insights into Southern Ocean paleo oceanography: High-resolution analysis of sea surface temperature and sea ice extent in the Indian sector around Kerguelen plateau over the last 42,000 years.	Pooja Ghadi, Rahul Mohan, Xavier Crosta, Sanket ParabGaonkar.
QEP - PR10		Inferring paleoclimate of Southern Ocean using diatom as a proxy: A study based on sediment core.	Dixita Vengurlekar, Pooja Ghadi, Rahul Mohan, Xavier Crosta

**DAY-2 (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 9 April 2024**

**Venue : DAS**

<b>Focal Theme: Environmental Geosciences and Geohazards (EGG)</b>			
<b>Session Chair: Prof.(Dr.) K R Baiju, Director, School of Environmental Sciences, M.G. University</b>			
<b>Co-chair: Dr.Anand M,School of Environmental Sciences,CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>EGG-KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>Paradigm shift in Disaster Management concepts- An Overview</b>	<b>Prof. K R Baiju, Director, School of Environmental Sciences, M.G University</b>
EGG-OR1	11:45 to 11:57 Hrs	Exploring submarine canyon-channel systems: New insights from the Cauvery basin, Eastern continental margin of India	J. John Savio, S. Susanth, C. M. Bijesh, Sunil Vadakkepuliambatta, P. John Kurian
EGG-OR2	11:57 to 12:09 Hrs	Submarine geohazard assessment along the Indian continental margins: Case studies, challenges and future perspective	Bijesh C M, Sunil V & John Kurian P
EGG-OR3	12:09 to 12:21 Hrs	Evaluation of surface water and groundwater quality in and around Chakkamkandam lake.	M Ankitha, Anand Lali Neera
EGG-OR4	12:21 to 12:33 Hrs	Health risk assessment of Radon ( $^{222}\text{Rn}$ ) in groundwater in a tropical river basin	Anjali N, Achu A L, Girish Gopinath
EGG-OR5	12:33 to 12:45 Hrs	Geochemical distribution status of biochemical components in forest soils, Central Kerala	Sudha A, Roshni Mohan, Ratheesh Kumar C S
EGG-OR6	12:45 to 12:57 Hrs	Assessing fluoride pollution and related health concerns to humans in the Pullamapatti watershed in northern Tamil Nadu, South India	Divya A S, Joji V S, and Reshma Susan Jacob
<b>Lunch Break 13:00 to 13:45 Hrs</b>			
EGG-OR7	14:00 to 14:12 Hrs	GIS-based study on hydrochemical properties of deeper aquifers for evaluating groundwater quality in the Pondicherry region of the union territory of Pondicherry	Reshma Susan Jacob, Joji V S, and Divya A S
EGG-OR8	14:12 to 14:24 Hrs	Chemical characteristics and source mechanism of dissolved solutes in spring water from lesser Himalaya: A case study of the Chakrata tehsil of the Dehradun district, Uttarakhand, India	Aswini A S, Dr. Rouf A Shah
EGG-OR9	14:24 to 14:36 Hrs	Spatial distribution of microplastics in Bharathapuzha river	Ambika Ansuraj, Sosamony K J
EGG-OR10	14:36 to 14:48 Hrs	Iron contamination in groundwater of Kerala: An analysis	Arya Jayan and E. Shaji

EGG-OR11	14:48 to 15:00 Hrs	Hydrogeochemical studies of the Aluva-Kochi-industrial belt, Kerala, India	Nakul T. Sabu, E. Shaji and A.P. Pradeepkumar
<b>Poster Session (QEP EGG-12 to 17) 15:00 to 16:00 Hrs</b>			
EGG-PR12		Phytoremediation of Oscar fish aquaculture wastewater with selected commercially important aquarium plants	Sija J., Ramasamy E.V. and Pramila S.
EGG-PR13		Investigation on diurnal variability of atmospheric electric field over Thumba	Arya Radha, Kiran Kumar NVP, and Sathiyamoorthy V
EGG-PR14		Delineation of shallow aquifer by using electrical resistivity method in western coast of Suvarna river basin, Udupi district, Karnataka	Gokul Satheesh, Vittal V, Balakrishna S Maddodi, Narayana Shenoy, Dr.H.N.Udaya Shankar
EGG-PR15		Surface sediment dynamics and organic matter records linked to natural and anthropogenic inputs in Manasbal lake: Implication to current environmental status	Naveena James, Aasif Mohmad Lone, Keshava Balakrishna
EGG-PR16		Assessing landslide risk and mitigation strategies through integrated geological, geophysical, and geospatial techniques in Central Kerala, with emphasis on lineament mapping	Aadil Vishnu Prayag, Dr. Honey H Das, Dr. Naveen P U, Dr. Sreekala P P
EGG-PR17		A preliminary study of the impact of thermal powerplant on the water quality of surrounding open wells, Padubidri, Southwest coast of India	P V Vivek, Keshava Balakrishna
<b>Tea Break 16:00 to 16:15 Hrs</b>			

**DAY – 3 (10 April 2024) (FN & AN)**

**Plenary Session Venue : School of Marine Science (SMS) Auditorium**

<b>Schedule</b>		
<b>Session Chair: Dr.Ramesh Kumar M R, Chief Scientist(Retd.), NIO,Goa Dr.C A Babu, Department of Atmospheric Sciences, CUSAT</b>		
<b>Time</b>	<b>Talk title</b>	<b>Presenter</b>
9.30 to 10.00 Hrs.	Plenary Lecture 1	<b>Dr. S Suresh Babu, Scientist G &amp; Head, Space Physics Laboratory Thiruvananthapuram</b>
10.00 to 10.30 Hrs.	Plenary Lecture 2	<b>Prof. (Dr.) Vinayachandran, Indian Institute of Science, Bangalore</b>
10.30 to 11.00 Hrs.	Plenary Lecture 3	<b>Dr. George Ninan, Director, CIFT</b>
11.00 to 11.15	<b>Tea Break</b>	

**Session Venues: SMS, CIFNET, NCAAH, MGD, POD, DAS**

**SMS : School of Marine Sciences Auditorium, Academic Block 1, Fourth Floor**  
**CIFNET : Central Institute of Fisheries Nautical and Engineering Training Auditorium, Ground Floor**  
**NCAAH : National Centre for Aquatic Animal Health, Academic Block 2, Fourth Floor**  
**MGD : Dept. of Marine Geology and Geophysics, Academic Block 2, Fifth Floor**  
**POD : Dept. of Physical Oceanography, Academic Block 2, Sixth Floor**  
**DAS : Dept. Atmospheric Sciences, Academic Block 2, Seventh Floor**



**DAY-3 (AN) (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 10 April 2024**

**Venue : SMS**

<b>Focal Theme: Fisheries for Food Security and Sustainable Livelihoods (FFS)</b>			
<b>Session Chair: Dr. T.V. Sankar, Principal Scientist (Retd.), CIFT</b>			
<b>Co-chair: Prof. (Dr.) M Harikrishnan, CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>KN1</b>	<b>11.15 to 11.45 Hrs</b>	<b>Post Harvest Losses and Requirement of Infrastructure in Fisheries Sector</b>	<b>Dr. Shine Kumar, Director, NIPHATT</b>
FFS-OR 1	11.45 to 11.57 Hrs	Assessing vulnerability factors in estuarine fisheries: a stakeholder's perceptions.	Swetha KC, Jayalakshmi KJ, Sreekanth GB
FFS -OR 2	11.57 to 12.09 Hrs	Shelf-life stability of Silver Pompano fish sausage fortified with Whole Chia Seed Powder	Pooja T P
FFS -OR 3	12.09 to 12.21 Hrs	Bioconversion of shrimp shell waste for extracting chitin using <i>Bacillus licheniformis</i> and <i>Lactobacillus fermentum</i>	T K Anupama, E. Krishnamoorthy, Lekshmi R G Kumar and Toms C. Joseph
FFS -OR 4	12.21 to 12.33 Hrs	Effect of thermal processing steps on proximate, amino acid, fatty acid and mineral composition of genetically improved farmed tilapia, <i>Oreochromis niloticus</i>	Libeesh P.K, Mohan C.O, Joshy C.G, Chaithanya E.R, George Ninan
FFS -OR 5	12.33 to 12.45 Hrs	Food borne illness symptoms encountered by seafood consumers of Kerala: A mixed-methods study	Arundhathi V, Mini Sekharan N
FFS -OR 6	12.45 to 12.57 Hrs	Country Focus in Technological Evolution of Seafood Processing: A Bibliographical Coupling Analysis	Abhirami Subash, Hareesh N Ramanathan
<b>Lunch Break 13.00 to 14.00 Hrs</b>			
FFS -OR 7	14.00 to 14.12 Hrs	Standardisation of recipe for millet incorporated fish cutlets prepared from silver pompano ( <i>Trachinotus blochii</i> )	Kavya M Kumar, Ginson Joseph
FFS -OR 8	14.12 to 14.24 Hrs	Exploring community perspectives: Attitude of people towards livelihood enhancement initiatives in coastal areas	Aparna Das AM, Hareesh N Ramanathan
FFS -OR 9	14.24 to 14.36 Hrs	Preparation and characterization of different-sized ZnO-Nanoparticles: Comparing the different analytical methods to identify the potential nanoparticle for antibacterial applications	Visnuvinayagam S., Akshai A., Teena G., Murugadas V., Anandan R., Toms C. Joseph and Raja Swaminathan T.
FFS -OR 10	14.36 to 14.48 Hrs	Resource partitioning among three sympatric sciaenids in a tropical estuary, India	Roshni K, Renjithkumar C.R
FFS -OR 11	14.48 to 15.00 Hrs	Genetic diversity of Salmonella Paratyphi B isolated from seafood in Cochin, Kerala	Greeshma S. S, Rehana Raj, Devika Pillai, Asha K. K , Vishnu Vinayagam & Toms. C. Joseph
FFS -OR 12	15.00 to 15.12 Hrs	Innovative Green technologies for seafood waste utilization towards the circular economy	Patel Shivangi Bharatbhai, Shyni K, Ahana Vijayan

		<b>Poster Session (FFS-PR 13 to 24) 15.00 to 16.00 Hrs</b>	
FFS -PR 13		Valorization of grouper fish skin waste into leather and value addition	Alakuntla Preethi, Manjanaik Bojayanaik, Ananya Thimmappa, Sachin Dnyanoba Chavan, Jyoti Ganachari
FFS -PR 14		Assessment Of Heavy Metal Contamination in Dried Fish from Fishing Villages of Kerala, South India.	Anisha Pyary, Athira Pulickal Santhosh, Anagha Biju, Partheeban Emmanuel Charles, Rajendran Rajaram
FFS -PR 15		Characterization of micro alginate beads coated with chitosan	Ayana Surendran, Anagha Jayan, Tijith K George and Maya Raman
FFS -PR 16		Study of planktonic biodiversity in culture pond under sodic soil conditions	Khoob singh, C. P. Singh, Dinesh Kumar, Ashish Singh and Jyoti Saroj
FFS -PR 17		Potential of gastropod resources in India from bycatch	Pavithra MÃ, Jayalakshmi.K.J, Abirami TÃ
FFS -PR 18		Exploring underutilized stomatopods of Indian waters as a valuable resource	Amina Jamal, Jayalakshmi. k.J
FFS -PR 19		Studies on groupers (Epinephelus) landing in Junglighat landing centre of Port Blair, South Andaman's coast.	Akhil Krishna, Yazad Patel, Samrat Kalita, Habeebu Rahman, R Mohanraju
FFS -PR 20		Heat penetration characteristics and quality alterations of squid masala ( <i>Loligo duvaucelii</i> ) processed using flexible retortable pouches	Sachin Chavan, Jyoti Ganachari, Vajjnath Aitwar, Ananya Thimmappa, Alakuntla Preethi, Rohini Swami
FFS -PR 21		Carapace width-weight relationship of <i>Scylla olivacea</i> (herbst, 1796): gender-specific growth patterns from the Cochin estuary, southwest coast of India	Aneesa K.A. , Chaithanya E.R, Sijo P Varghese
FFS -PR 22		Ecological Transformations: Local Fisher Perspectives on declining fish catch in Chettuva Estuary	Adarsh M A, Asmiya C Jamal, Judith Das, Sreekanth Giri Bhavan
FFS -PR 23		Tribal Fisheries and Fish Catch Pattern from Thottiyar Reservoir and Associated Channels, Idukki along Western Ghat Foot Hills: A Market Analysis for Livelihood Sustainability	Farisa Moideen, Kurian Mathew Abraham
FFS -PR 24		Does Pearlsport Exhibit Lifelong (Classical) Monogamy? Unveiling The Breeding Habit Of Pearlsport Through An Investigative Study.	Magdeline Christo, Divya P. R, Rekha M.U, Ignatious Mandro, Manju.S, Ashokan.K, Uttam Kumar Sarkar

**DAY-3 (FN) (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 10 April 2024**

**Venue : CIFNET**

<b>Focal theme: Marine Biodiversity and Conservation (MBC)</b>			
<b>Session Chair: Dr. P U Zacharia, Principal Scientist (Retd.) CMFRI</b>			
<b>Co-Chair: Dr. Anish Kumar K V, S H Thevara</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Presenter</b>
<b>KN 3</b>	<b>11.15 to 11.45 Hrs</b>	<b>The Kunming – Montreal global biodiversity framework (GBF) and marine biodiversity conservation in India</b>	<b>Dr. Rajeev Raghavan Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi</b>
MBC-OR 22	11.45 to 11.57 Hrs	A catalogue of Sapphirina and Copilia ((Family: Sapphirinidae; Order: Cyclopoida) copepods based on mitochondrial COI (mtCOI) sequences coupled with its morphology from a tropical island of South Western Indian Ocean.	Radhika, R., Santu, K.S., Bijoy Nandan, S., and. Harikrishnan, M
MBC-OR 23	11.57 to 12.09 Hrs	Metagenomic analysis of heterotrophic bacterial diversity associated with microcystis bloom from selected aquatic ecosystems of South India	Renju Mohan, Lathika Cicily Thomas, K. B. Padmakumar
MBC-OR 24	12.09 to 12.21 Hrs	Recent trends on rising ciliate epizooism on zooplankton communities along the southwest coast of India	Aishwarya, Sanu V Francis, K B Padmakumar
MBC-OR 25	12.21 to 12.33 Hrs	From Planktonic Hotbeds to Fishery Harvests: Unraveling the Coastal Dynamics of Southern India	Syed Marjuk Mohammed, Gowthami Ayyasamy, Santhanam Perumal and R. K. Sarangi
MBC-OR 26	12.33 to 12.45 Hrs	An Ensemble Modeling Approach Reveals the Most Suitable Niches of <i>Thalassia hemprichii</i> , the Dominant Primary Producer in Coastal Seagrass Communities of the Indo-Pacific Region	Vaishnavi V. J., Shijin Ameri, Sreenath K. R.
MBC-OR 27	12.45 to 12.57 Hrs	Record of rare jobfishes from the southwest coast of India	Akshaya Vijayan, Livi Wilson, S. Pakkiri Muthu and Shobha Joe Kizhakudan
<b>Lunch Break 13.00 to 14.00 Hrs</b>			
MBC-OR 28	14.00 to 14.12 Hrs	Assessment of heavy metal concentration in the tissue of edible oyster from Ayiranthengu mangrove forest	Athira Satheesh, Bindu L
MBC-OR 29	14.12 to 14.24 Hrs	Distribution pattern of Emerita spp along the coast of Thottappally, Alappuzha District, Kerala	Shameena Majeed, Bindu.L
MBC-OR 30	14.24 to 14.36 Hrs	Marine fish monitoring from fishing vessel using computer vision for the conservation of fish species	Biju Angalees, Anupama D Sakhare
MBC-OR 31	14.36 to 14.48 Hrs	Soft corals (Order- Malacalcyonacea) of the Lakshadweep Archipelago, India: DNA Barcoding using mtMutS mitochondrial gene	Nayana Narayanankutty, Alna K Joshy, Sneha Rengith, Minu Thomas, S Sureshkumar
MBC-OR 32	14.48 to 15.00 Hrs	Feeding ecology of Surgeonfishes (family: Acanthuridae) from Andaman islands	S.Narayani, S.Venu

MBC-OR 33	15.00 to 15.12 Hrs	Distribution and drivers of recent mass mangrove dieback in Maldives	S Sreelekshmi, S Bijoy Nandan
MBC-OR 34	15.12 to 15.24 Hrs	Reef fish diversity in Lakshadweep lagoons: A Comparative Analysis of Agatti and Kavaratti islands	Sandra Babu., Miriam Paul Sreeram, Alvin Anto & Sreenath KR
MBC-OR 35	15.24 to 15.36 Hrs	Assessment of threats to point calimere marine key biodiversity area (kba) in the southern India	Abinaya R, Sajeevan MK
MBC-OR 36	15.36 to 15.48 Hrs	Reproductive biology of carangids occurring along the Indian coast: A brief review	Mahesh Shetkar, Kajal Rathod, Vivek Nirmale, Harshvardhan Shetye

**DAY-3 (KN: Key Note; OR: Oral & PR: Poster)**

**Date: 10 April 2024**

**Venue: NCAAH**

<b>Focal Theme: Marine Bioprospecting and Natural Products and Drugs (MBP)</b>			
<b>Session Chair: Dr.Kajal Chakraborty, Principal Scientist, CMFRI, Kochi</b>			
<b>Co-chair: Prof.(Dr.)Sajeevan T P,CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>MBP KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>Biosurfactants-Eco friendly solutions for polar science and sustainable development</b>	<b>Dr. Pattanathu Rahman Liverpool John Moores university UK</b>
MBP-OR1	11:45 to 11:57 Hrs	Purification and characterization of cold-active lipase: exploring its application in biofilm degradation and gene expression studies	Hafsa Kattatheyl, Anjali S Mohan, Dhanya Kesavan, Jesmi Yousuf, Mohamed Hatha AA.
MBP-OR2	11:57 to 12:09 Hrs	Bioprospecting indigenous microalga <i>Acutodesmus acuminatus</i> MB 24: exploring bioactivity, biofuel potential, and sustainable cultivation with fish silage	Jasmin KA, Saramma A. V
MBP-OR3	12:09 to 12:21 Hrs	Bioactive potential of the endophytic fungus <i>Aspergillus carneus</i> SGF178 from seagrass and its application in the <i>Oreochromis niloticus</i> culture system	Dhanya Kesavan, Anjali S Mohan, Neelima, Revathy MR, Rosamma Philip
MBP-OR4	12:21 to 12:33 Hrs	Discovery and bioprospecting potential of a novel marine actinomycetes <i>Streptomyces krishnensis</i> sp. nov., isolated from an Arctic Fjord	Md Umar, KP Krishnan, Salini S, Sajeevan TP
MBP-OR5	12:33 to 12:45 Hrs	Isolation of potential antimycobacterial compound from a marine mangrove actinomycetes <i>Streptomyces</i> sp. JKA52	Salini S, Jisha Kumaran, Sajeevan TP
MBP-OR6	12:45 to 12:57 Hrs	Assessing the bioactive potential of actinomycetes isolated from mangrove sediments of north Kerala	Kayalvizhi S, Dhanya G, Abinayaa K, Abdul Haseeb A, Bhuvaneshwari R, Keshika D, Rojin Joseph, Sajeevan TP

		<b>Lunch Break: 13.00 to 14.00 Hrs</b>	
MBP-OR7	14:00 to 14:12 Hrs	Induced biosynthesis of cryptic natural products with potent antimicrobial activity from marine actinomycete <i>Saccharopolyspora</i> sp.	Namitha R, Rojin Joseph, Dhaneesha M, Md Umar, Neelima, Sajeevan TP
MBP-OR8	14:12 to 14:24 Hrs	Screening of process variables for the extraction of gelatin from ray fish ( <i>Gymnura poecilura</i> ) skin using Response surface methodology (RSM).	Aidamol P, Pathissery John Sarlin, Jeniffer Ann Thomas
MBP-OR9	14:24 to 14:36 Hrs	Screening and optimization of process parameters for the alkaline phosphatase production by <i>Bacillus cereus</i> isolated from Arctic sediments	Annie George, Lisintta ES, Sona Gafoor, Vishnupriya S, Jesmi Yousuf, Ally C Antony, Aneesa PA, Mohammed Hatha AA
MBP-OR10	14:36 to 14:48 Hrs	Isolation, characterization, and evaluation of anti-osteoarthritic effect of proteoglycans from shark cartilage	KK Ajeeshkumar, KV Vishnu, R Navaneethan, Raj Kumar, KR Remyakumari, GP Sreekanth, B Ganesan, Thangaraj Raja Swaminathan, Niladri Sekhar Chatterjee, KK Asha, Suseela Mathew
MBP-OR11	14:48 to 14:60 Hrs	UV-Protecting dipyrrolobenzoquinones from marine sponge-derived <i>Aspergillus</i> sp. mccf102: photostability and application in sunscreen lotions	Abinayaa K, Santhini PV, Rojin Joseph, Lekshmi N, Sajeevan TP
MBP-OR12	15:00 to 15:12 Hrs	Antibacterial and Anticancer activities of <i>Streptomyces</i> sp. MMCC30 isolated from Arabian Sea sediment	Rojin Joseph, Dhaneesha M, Umar Md, Sajeevan TP
MBP-OR13	15:12 to 15:24 Hrs	Antimalignant potential of ergosterol isolated and characterized from <i>Perna viridis</i> in Cochin Coastline Beds, Southwest Coast of India	Divya KR, Midhun TR, Ratheshkumar CS, ChandramohanakumarN, Ajith Vengellur, Saipriya TP, Meera KM, Vignesh Kumar B, Abhilash K R
MBP-OR14	15:24 to 15:36 Hrs	The impact of light intensity on the growth and fatty acid profile of the diatom <i>Sellaphora minima</i> (Grunow) mann, 1990 for potential commercial applications	Aswathy Krishnan and Aneykutty Joseph
MBP-OR15	15:36 to 15:48 Hrs	Exploring the potential of seaweed kombucha fermentation for enhanced bioactivity and nutritional benefits	Dona Jaiju, Devananda Uchoi, Pankaj Kishore, Niladri Sekhar Chatterjee
MBP-OR16	15:48 to 15:60 Hrs	A comparative study on antibiofilm activity of the MgO-nanoparticles-chitosan-composite and its counterpart with varying degree of biofilms	Teena George, Visnuvinayagam S, Murugadas V, Anandan R, Toms C Joseph, Raja Swaminathan T
		<b>Tea Break 16:00 to 16:15 Hrs</b>	
MBP-OR17	16:15 to 16:27 Hrs	Effects of seasonal variation and physico-chemical factors on biochemical composition and antioxidant activity of rocky intertidal seaweeds.	Akshay Krishna, Temjensangba Imchen
		<b>Poster Session (MBP-PR18 to 28) 14:00 to 16:00 Hrs</b>	

MBP-PR18		Bioactive potentials of manglicolous yeast $\beta$ -glucan: an invitro approach	Ashly Augustine, KA Nimsi, K Manjusha
MBP-PR19		Unveiling Artemin: A Novel antimicrobial peptide from <i>Artemia</i> sp. and its influence on microalgal growth	Anne Maria Thomas, Anjali VP, Navya Raj, Noorjahan KK. Swapna P Antony
MBP-PR20		Synthesis, characterization, and bioimaging applications of seaweed-derived carbon nanodots	Arathi Kollath, Tino Thampy, Vishnu Venugopal, Mohammad Hatha A A
MBP-PR21		Application of various pretreatment methods for the isolation of Actinomycetes from Cochin estuary	Amritha, Sajeevan TP, S Venu
MBP-PR22		Marine micro-algae bio-prospecting as sustainable bio-factories for higher value-added compound	Mayurkumar U Tandel, Prabhutva Chaturvedi, Binal Khalasi
MBP-PR23		Bioprospecting potential of actinomycetes isolated from mangrove sediments of Kannur, Kerala	Muhammed Shafeer M, Anaswara Rajeev, Archana E, Amrutha S Das, Sandra Manasan, Sarika C, Rojin Joseph, Dhaneesha M, Sajeevan TP
MBP-PR24		Exploring the antimicrobial, antioxidant, and quorum quenching activities of actinobacterial isolates associated with mangroves in Ernakulam district	Greeshma James, Sajeevan TP, Rejish Kumar V J
MBP-PR25		Gold mines of osseous engineering: Unveiling the potential of marine sponge biomaterials	Kurapati Nagendrasai
MBP-PR26		Polysaccharides extracted from <i>Sargassum wightii</i> boosted immunity in ornamental gold fish against <i>Aeromonas hydrophila</i> challenge	T Bettin Thomas, RD Stevens Jones, T Citarasu
MBP-OR27		Efficacy of chitosan nanoparticles against extended-spectrum beta-lactamase (ESBL)producing <i>E. coli</i>	V Sneha Suresh Babu and Sunish K S
MBP-OR28		Screening of critical parameters for gelatin extraction from cuttlefish ( <i>Sepia pharaonis</i> ) skin waste for sustainable resource utilization: a response surface methodology approach	Jeniffer Ann Thomas, Pathissery John Sarlin, Aidamol P, Gayathry S, Megha M

**DAY-3 (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 10 April 2024**

**Venue : MGD**

<b>Focal Theme: Deep Continental Studies and Geodynamics (DCG)</b>			
<b>Session Chair: Prof. (Dr.) A.P. Pradeep Kumar, Department of Geology, University of Kerala</b>			
<b>Co-chair: Dr. Joji V S, CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>DCG - KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>An isotopic perspective on the carbon storage potential in the continental crust</b>	<b>Prof. (Dr.) M. Satish Kumar Vice-President (Research) Niigata University, Japan.</b>
DCG - OR1	11:45 to 11:57 Hrs	Survival of continents through time: A view from evolution of the western margin of India and the Western Ghats of Kerala, India	Ajayakumar P, NFK Zeba and Mahadevan T M
DCG - OR2	11:57 to 12:09 Hrs	Crustal structure and tectonic evolution of the Cauvery basin, eastern continental margin of India: A geophysical revisit	Harimohan sonowal, Twinkle Damodharan
DCG - OR3	12:09 to 12:21 Hrs	Crustal structure and tectonic processes in the Kerala-Konkan basin: Insights from gravity and magnetic data	Soumik Nandy, Twinkle Damodharan
DCG - OR4	12:21 to 12:33 Hrs	Banded iron formations from the Attappadi valley, Kerala, southern India: Implications for the Precambrian Algoma-type origin	R. Radhika, Y. Anilkumar, A.P. Pradeepkumar
DCG - OR5	12:33 to 12:45 Hrs	Evidence of layered gabbro-anorthosite complex from the Coorg block, Southern India	K.S. Anoop and Y. Anilkumar
DCG - OR6	12:45 to 12:57 Hrs	Petrochemical study of mafic-ultramafic rocks of Karwar block, SW India	Anjana Mathew, Y. Anilkumar
<b>Lunch Break 13:00 to 13:45 Hrs</b>			
DCG - OR7	14:00 to 14:12 Hrs	Evidence of layered gabbro-anorthosite suite from Attappadi valley, Kerala, Southern India	K.V. Kavyanjali, Y. Anilkumar
DCG - OR8	14:12 to 14:24 Hrs	Understanding the variation of crustal architecture along 85° East ridge: An integrated geophysical study	Lekshmika Lal, Twinkle Damodharan
<b>Poster Session 14:30 to 15:30 Hrs</b>			
DCG- PR 9		Petrographic and fluid inclusion studies in high grade metamorphic rocks of Coorg and Mercara suture zone, Southern granulite terrain, South India	Rajkumar P B, and Amaldev T



**DAY-3 (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 10 April 2024**

**Venue : POD**

<b>Focal Theme: Coupled Ocean Atmospheric Modelling (CAM), Air-Sea Interactions (ASI), Regional Climate Modelling (RCM)</b>			
<b>Session Chair: Shri.B. Chakrapani and Prof. (Dr.) K Satheesan, Department of Atmospheric Sciences, CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>CAM-KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>Climate change impact on Indian summer monsoon and characteristics of extreme rainfall events</b>	<b>Dr. K Rajendran, Chief Scientist, CSIR- 4PI, Bangalore</b>
CAM-OR1	11:45 to 11:57 Hrs	Observational and modelling study of the mid tropospheric dynamics of a supercell tornadic thunderstorm over Indian region	Dr Smitha John, Dr H S Ram Mohan
CAM-OR2	11:57 to 12:09 Hrs	Assessment of nitrogen dynamics and production regimes in the North Indian Ocean: A coupled modeling perspective	Sunanda N, Jayanarayanan Kuttippurath, Arun Chakraborty
CAM-OR3	12:09 to 12:21 Hrs	Comparative analysis of ocean surface pCO <sub>2</sub> in the Central Bay of Bengal: Coupled model versus machine learning approaches	Rony Peter, Jayanarayanan Kuttippurath
CAM-OR4	12:21 to 12:33 Hrs	Identifying extreme south west monsoon precipitation circulation patterns using convolutional neural networks	Amal P Jose, Dileepkumar R, Krishnamohan KS, Arulalan T
ASI-OR5	12:33 to 12:45 Hrs	Dynamical Aspects of Heavy Rainfall Events Over Southern Peninsular India during Northeast Monsoon Season and its Association with Indian Ocean Warming and Madden Julian Oscillation	Sreekala P P, Sreevidya Ravi, Jayasankar CB
ASI-OR6	12:45 to 12:57 Hrs	Effect of atmospheric heat-flux in the northern Arabian sea surface chlorophyll bloom	Adith V.B, V.P. Akhil, M.G. Keerthi, V. Sanilkumar
<b>Lunch Break 13:00 to 13:45 Hrs</b>			
ASI-OR7	14:00 to 14:12 Hrs	Analysis of lightning activity over Kerala and its relationship with thermodynamic parameters	Nandhulal K., Hamza Varikoden and Vishnu R.
ASI-OR8	14:12 to 14:24 Hrs	Reanalysis of Long-term Variations in the Frequency of North Indian Ocean Storms Using Tracking Algorithms	Vishnu B Bal, Krishnamohan K.S, and Vishnu S
<b>Poster Session(ASI- PR09 to RCM-PR11) 14:30 to 15:30 Hrs</b>			
ASI-PR09		Variability of inland precipitation microphysics over southern peninsular India during tropical cyclone	Lekshmi Anilkumar, Sumesh R.K, Resmi E.A, Gadha Gopan, Nita Sukumar
ASI-PR10		Heatwave trends and impacts in India: A study of pre-monsoon seasons (1981-2022) and recent trends (2018 - 2022)	Neethu C S, Abish B
RCM-PR11		Sensitivity of a heatwave event to initial soil moisture conditions	Amal Joy, K Satheesan



**DAY-3 (KN: Key Note; OR: Oral & PR: Poster)**

**Date : 10 April 2024**

**Venue : DAS**

<b>Focal Theme: Monsoon Prediction and Predictability (MPP), Ocean Observation System (OOS), Aerosol and Air Quality (AA)</b>			
<b>Session Chair: Dr. Abhilash S, Director, ACARR, CUSAT</b>			
<b>Co-chair: Dr Manoj M G ACARR, Scientist D, CUSAT</b>			
<b>No.</b>	<b>Time</b>	<b>Talk title</b>	<b>Authors</b>
<b>MPP-KN1</b>	<b>11:15 to 11:45 Hrs</b>	<b>Kavaratti: An India – led approach to counter climate change</b>	<b>Narayanan Komerath</b>
MPP-OR1	11:45 to 11:57 Hrs	Reconstruction of Indian summer monsoon rainfall for the last ~200 years using spatially distributed tree ring $\delta^{18}O$ network	Jisha K. Vishal, Midhun M
MPP-OR2	11:57 to 12:09 Hrs	Characteristics of Mesoscale convective systems over the Southwest coast during heavy rainfall events from high-resolution satellite observations	Silpamol D S, Ajil Kottayil
MPP-OR3	12:09 to 12:21 Hrs	Planetary boundary layer characteristics and its association with monsoon rainfall over Himachal Pradesh using regional reanalysis data IMDAA.	V S Anjana, Charu Singh
MPP-OR4	12:21 to 12:33 Hrs	An assessment of extreme precipitation event over southern Western Ghats based on in-situ observations and high-resolution model simulations	E. A. Resmi, R. K. Sumesh, and R S Ajayamohan
MPP-OR5	12:33 to 12:45 Hrs	Anomalous rainfall event during 8 to 10 July 2023 over Himachal Pradesh	P. Ancy, C. A. Babu, H. Varikoden
OOS-OR6	12:45 to 12:57 Hrs	Comparison and validation of Chl-a in the surface waters along the off-Kochi transect in the South Eastern Arabian Sea using OCM-3 data	Vennila M, Manimozhi N, Anu Gopinath, Sarangi RK
<b>Lunch Break 13:00 to 13:45 Hrs</b>			
OOS-OR7	14:00 to 14:12 Hrs	High resolution global ocean reanalysis evaluation for the Indian Ocean	Avinash Paul, P. A. Maheswaran, K. Satheesan
OOS-OR8	14:12 to 14:24 Hrs	Validation of satellite retrieved chlorophyll-a data from ocean colour monitoring-3 sensor using in-situ data over Southwest Bay of Bengal (Tamil Nadu coast)	A. Saravanakumar, Pavithra Balamurugan, Alexkirubakaran, K.N. Babu
OOS-OR9	14:24 to 14:36 Hrs	How could cyclone Michaung induce transient upwelling along the Southwest coast of India	Rahul Dev, Muraleedharan, K. R, Gireeshkumar, T. R, Shivaprasad, S, Sanjiba Baliarsingh, Anjana Jayaprakash
AA-OR10	14:48 to 15:00 Hrs	Unusual fog event over Kerala and its association with cyclonic activity and transport of particulate matter: A case study	K Arun, K Satheesan, M G Manoj, SP Sujithlal
AA-OR11	15:00 to 15:12 Hrs	Changes in surface ozone and PM during lockdown period over Kannur and its validation using model simulations	Keerthi Lakshmi K A, Nishanth T, Sunil Kumar MK, Akhil RK, Fei Ye, Dipesh Rupakheti,

			Satheesh Kumar M K
AA-OR12	15:12 to 15:24 Hrs	Tracking long-term NO <sub>2</sub> pollution trends: From global to city-scale insights shaped by environmental regulations	Sai Amritha K, Hamza Varikoden, V. K. Patel, J. Kuttippurath and G. S. Gopikrishnan
		<b>Poster Session (MPP-PR13 to AA-PR17) 15:24 to 16:00 Hrs</b>	
MPP-PR13		Analysis of rainfall variability in the Chaliyar River basin: A statistical perspective	Nikitha P Bhaskar, Arunkumar K.S, Arun P.R
MPP-PR14		The pre monsoon rainfall variability over India in association with ENSO and MJO	P.P. Ajith, P.P. Sreekala
MPP-PR15		Nonlinear analysis of regional rainfall in India	Malavika Shajan, Swarnali Majumder, T M Balakrishnan Nair
OOS-PR16		The pivotal role of observational data in ocean wave modeling studies	Aparna M, Sandhya K G
AA-PR17		Identification of air pollution hotspots in Kerala: A decadal analysis of spatiotemporal variations in ambient pollution levels	Rakhi K Raj, Bindu G