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Expert committee Member: Pool of Experts (PoE) United Nations Regular Process-selected as a writing team member or peer reviewer of the third **World Ocean Assessment (WOA III)**, Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects (Regular Process).

KEY EXPERIENCE

Sl. No	Designation	Name of the Institution	From Date	To Date	Nature of Duty
1	Govt. Guest	MES- Asmabi College	05/06/2025	To date	Head of the Department and Assistant Professor, Department of Zoology
2	Govt. Guest	St. Albert's College (Autonomous)	01/10/2024	31/03/2025	Assistant Professor, Research Department of Fisheries and Aquaculture (RDFA)
3	Govt. Guest	St. Albert's College (Autonomous)	05/06/2023	27/03/2024	Assistant Professor, Research Department of Fisheries and Aquaculture (RDFA)
4	Govt. Guest	St. Albert's College (Autonomous)	28/09/2022	31/03/2023	Assistant Professor, Research Department of Fisheries and Aquaculture (RDFA)
5	Project Fellow	Cochin University of Science and Technology	01/09/2020	30/11/2020	Environmental quality analysis, heavy metal analysis, phytoplankton analysis, zooplankton and benthic organism identification
6	Project Fellow	Cochin University of Science and Technology	01/11/2012	30/06/2015	Ecology, water quality analysis, zooplankton, taxonomy and molecular analysis of copepods
7	University UJRF/UGC RGNF JRF	Cochin University of Science and Technology	04/12/2013	29/12/2019	Ecology, water quality analysis, zooplankton, taxonomy and molecular analysis of copepods form estuaries of Kerala

EDUCATIONAL QUALIFICATION

<i>Particulars</i>	<i>University / Board</i>	<i>Class</i>	<i>% of Marks/CGPA</i>	<i>Year of passing</i>
PhD	Cochin University of Science and Technology	First class	75%	2020
MSc. Marine Biology	Cochin University of Science and Technology	First class	7.45 CGPA	2012
BSc	Mahatma Gandhi university	First class	75%	2010
HSE	Board of Higher Secondary Education, Kerala	First class	63%	2007
SSLC	General Education Department, Kerala	First class	67%	2005

PERSONAL PROFILE

Date of Birth : 20-02-1989
Marital Status : Unmarried
Nationality : Indian
Religion : Christian, Syrian Catholic
Language Proficiency : English and Malayalam

AWARDS/FELLOWSHIPS

- UGC-RGNF National Fellowship for Doctoral programme
- First prize in Malayalam story writing conducted in School of Marine Sciences-LEAF programme
- First prize in Nadanpattu conducted in School of Marine Sciences-LEAF programme
- First prize in Thiruvathirakali conducted in School of Marine Sciences-LEAF programme
- Guided and mentored students who got best Paper and poster presentation in AKS 2024 organized by RDFA, St. Alberts's College (Autonomous).

AREAS OF INTEREST

- Marine ecology
- Zooplankton ecology
- Taxonomy of zooplankton
- Taxonomy of copepods
- Water quality assessment
- Molecular analysis
- Genetic characterization
- Freshwater
- Brackish water aquaculture
- Mariculture
- Aquaculture nutrition
- Aquariculture
- Larval nutrition
- Aquaculture engineering

AREAS OF TEACHING

- Freshwater aquaculture
- Brackish water aquaculture
- Mariculture
- Aquaculture nutrition
- Aquariculture
- Larval nutrition for finfish and shellfish organisms
- Aquaculture engineering
- Fishing technology
- Aquaculture and management of ecosystems

BS.C. PROJECT GUIDANCE

1. **Ecological importance of mangrove ecosystems with special reference to true crabs.** 3rd year B.Sc. Aquaculture 2020-2023. Research Department of Fisheries and Aquaculture (RDFA), St. Albert's College (Autonomous).
2. **Breeding of gold gourami.** 2nd year B.Sc. Aquaculture 2021-2024. Research Department of Fisheries and Aquaculture (RDFA), St. Albert's College (Autonomous).
3. **Mangrove-Crab Aquarium Project** (Ongoing), Research Department of Fisheries And Aquaculture (RDFA), St. Alberts College (Autonomous)
4. **Culture Of Live Feeds (Microalgae, Cladoceran, Rotifers)-** Ongoing-Research Department of Fisheries And Aquaculture (RDFA), St. Alberts College (Autonomous)
5. **Impact of Diversity light spectra on the growth of commercial important aquaculture plants: a comprehensive study.** 3rd year B.Sc. Aquaculture 2021-24 batch. Research Department of Fisheries and Aquaculture (RDFA), St. Albert's College (Autonomous).
6. **Breeding of angel fish.** 2nd year B.Sc. Aquaculture 2022-2025. Research Department of Fisheries and Aquaculture (RDFA), St. Albert's College (Autonomous).

PAPERS

1. **K.S. Santu** and S. Bijoy Nandan (2015). Time scale changes in abundance pattern of mesozooplankton with special reference to calanoid copepods in Cochin estuary, India, *International Journal on Environmental Sciences* 6 (2): 187-203. ISSN: 0976-4534. Publisher: National Environmental Science Academy. NAAS IF:3.50
2. **K.S. Santu**, S. Bijoy Nandan and K. Athira (2015). Occurrence of Mass swarming of Family Acartiidae (Calanoid copepods) (Zooplankton in Ashtamudi Estuary, Kerala, *International Journal of Marine Science* 6 (30): 1-8. Publisher: Biopublisher.

3. **K. S. Santu**, S. Bijoy Nandan, Retina I. Cleetus and M. Harikrishnan (2017). Reassessing the species status of *Pseudodiaptomus malayalus* Wellershaus, 1969 and *P. binghami* Sewell, 1912 (Calanoida: Pseudodiaptomidae) from India based on morphology and mitochondrial cytochrome oxidase I gene sequences, *Mitochondrial DNA Part A*, Publisher: Taylor and Francis DOI: 10.1080/24701394.2017.1376054. IF: 3.350
4. **K. S. Santu**, N. D. Don Xavier, S. Bijoy Nandan, K. Kapila and K. Athira (2017). Seasonal observations on mass aggregation of cyclopoid copepod (*Oithona* sp.) with diatom bloom from Cochin estuary Kerala, India, *Journal of Aquatic Biology & Fisheries* 5:1-9. ISSN 2321-340X. Publisher: Department of Aquatic Biology & Fisheries, University of Kerala.
5. **K. S. Santu** and S. Bijoy Nandan (2017). Morphological discrimination of female specimens of *Pseudodiaptomus annandalei* Sewell, 1919 (Copepoda: Calanoida) from Cochin estuary and Corbyn's Cove Creek, Andaman & Nicobar Islands,- Indian Journal of Geo -Marine Sciences.
6. Remisha O., Saleena M., Jubisha A and **Santu K.S** (2019). Isolation and morphological identification of aflatoxigenic *Aspergillus flavus* in finished feed for farmed Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758), International Journal of Fisheries and Aquatic Studies 2019; 7(6): 280-286.
7. Radhika R., **Santu K.S.**, Bijoy Nandan and Harikrishnan M (2020). Surface cyclopoid copepod assemblages in relation to environmental conditions near undisturbed coral reefs of Minicoy, southeastern Arabian Sea, a part of the Indian Ocean. Marine Ecology, Wiley. 1-16
8. Jayachandran P.R., Radhika R, Balakrishna Pillai Aneesh, **Santu K S**, Mantodi Jima, Sivasankaran Bijoy Nandan (2021). Biological invasion of medically important bladder snail *Physella acuta* Draparnaud, 1805 (Gastropoda, Physidae) in the freshwater habitat of Kerala, India. Proceedings of the Zoological Society.
9. Varghese Rani., Chandraseskharan Sreelakshmi., Sivasankaran Bijoy Nandan., **Kuzhikandathil Sunny Santu.**, Chakkalal Mani Preethy (2023). Feeding ecology of *Parasesarma plicatum* and its relation to carbon structuring in mangrove ecosystem. Hydrobiologia. 0018-8158 (print); 1573-5117 (web).
10. Radhika R., Santu K.s., Bijoy Nandan and Harikrishnan M. Reconstructed phylogeny-glimpses of polyphyly of the micro-copepod genus *Oncaea*- (crustacean, copepod: cyclopoida, family: oncaeidae) using mtCOI sequences substantiated by morphology (2024). Journal of Aquaculture & marine Biology- April 9, 2024.

PAPERS PRESENTED

1. **K.S. Santu** and S. Bijoy Nandan (2014). Abundance of Mesozooplankton in Cochin estuary with reference to Calanoid Copepods, presented in *International conference on Hydrology and Meteorology*, 15-16 September 2014, Hyderabad, Volume 5, Issue 4 pp-163.
2. **K.S. Santu**, S. Bijoy Nandan and K. Athira (2015). Assemblage and community structure of Meroplankton in selected estuarine systems of Kerala, India presented in *International conference on World Ocean Science Congress 2015*, 5-8 February, 2015, Jawaharlal Nehru International Stadium Congress, Kochi, Kerala, India, Volume 1, Issue 1 pp-134.
3. **K.S. Santu**, S. Bijoy Nandan and K. Athira (2015). Holoplankton and meroplankton distribution in selected estuaries of Kerala, India. *In proceedings of International Conference on Biodiversity and Evaluation; Perspective and Paradigm shifts* (Bijoy Nandan et al. eds.). Held from 2nd to 3rd of December 2015 pp 264-267.
4. **Santu, K.S.**, Bijoy Nandan, S., Harikrishnan, M and Babu Philip (2016). Copepod diversity in Cochin Backwater, Future prospects as Live Feed for Aquaculture. *A National Seminar on 26 th Swadeshi Science Congress*. 7 – 9 November 2016. Pp 140 -141.
5. **K S Santu**, S Bijoy Nandan, Retina I Cleetus, M Harikrishnan and Babu Philip (2017). Resolving the taxonomic ambiguity of *Acartiella graveleyi* (calanoid copepod) from Vembanad backwater Kerala, using mitochondrial cytochrome oxidase subunit I gene. *29th Kerala Science Congress*, Mar Thoma College, Thiruvalla, Pathanamthitta, Kerala.
6. Radhika R., **Santu K.S.**, Bijoy Nandan and Harikrishnan M (2019). On the taxonomy of *Farranula* species from Lakshadweep waters with primary barcode of *F. gibbula*. Maricone.
7. Radhika R., **Santu K.S.**, Bijoy Nandan and Harikrishnan M (2019). Copepod abundance in lagoon stations of Bangaram, Agatti and Kavaratti, Lakshadweep Sea, a part of Indian Ocean-a comparison.
8. Radhika R., **Santu K.S.**, Bijoy Nandan and Harikrishnan M (2020). Mitochondrial cytochrome oxidase I (mtCOI)- an ideal barcode tool for genus *Oncaea* philippi, 1843 Family: Oncaeidae Order: Cyclopoida (Burmeister, 1835). OSICON.
9. Migheya Rivyra and **Santu K.S.** (2023). Report on Mass swarming of Cladocera (*Moina* sp.) from an Old Abandoned Well, Kerala and its Importance as a Potential Candidate in Live Feed Aquaculture. AKS'23. Proceedings of Albertian Knowledge Summit.
10. Paul Sharon Simenthy, Sandra K.B and **Santu K.S.** (2023). Culture techniques of infusoria and its importance in larval rearing of fish larvae. AKS'23. Proceedings of Albertian Knowledge Summit.

11. Murali Krishna, Navaneeth Francis, Vivek Chandrasekharan, Anokh Sajeev Marathara and **Santu K.S.** (2023). Effective utilization of covid-19 pandemic by ornamental fish breeding. AKS'23. Proceedings of Albertian Knowledge Summit.
12. Muhammad Jassim, Liya, Doyel, Murali Krishna & **Santu K S.** (2023). Unlocking the Potential of Sustainable Aquaculture through Mastering the Art of Home-grown Artemia Culture. AKS'23. Proceedings of Albertian Knowledge Summit.
13. Navaneeth Francis, Muralikrishna P.M and **Santu K.S.** (2024). Establishing and maintaining a low-cost zebra fish breeding and rearing at captivity *SAFPBBCA* (2024). Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
14. Nandana K.N., Nandana Sanil, Adithya P.S. Sruthi C Sunil and **Santu K.S.** Salinity Impact on Growth: Evaluating the Response of *Chlorella marina* and *Nannochloropsis oculata*, Key Live Feeds in Aquaculture (2024). *SAFPBBCA* (2024). Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
15. Gouri S Mydhili, Muralikrishna P.M. and **Santu K.S.** *SAFPBBCA* (2024). Exploring the Taxonomy and Distribution of the Ghost Crab, *Ocypode pallidula*, along the Sandy Beaches of Vypin, Kerala: Insights from Local Observations and Research *SAFPBBCA* (2024). Proceedings of Albertian Knowledge Summit. Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
16. Muhammed Jassim M.N, Vignesh Pradeep, Christin John S, Vibin M., **Santu K.S.** Designing an algae panel bioreactor system for sustainable biomass production. *SAFPBBCA* (2024). Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
17. Anokh Sajeev Marathara, Liya Rose, Sofiya Correya, Nilcy Maria & **Santu K.S.** *SAFPBBCA* (2024). Impact of diverse light spectra on the growth of commercially important aquatic plants. Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
18. Akhil K.S, Arun Krishna M.S, Jithesh Benny, **Santu K.S** & Melby Emmanuel. Preliminary studies on the breeding and rearing of *Channa striata* (bleeker, 1879). *SAFPBBCA* (2024). Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
19. Aleema Clement, Sravan J, Vignesh, Sruthy C Sunil, Vibin M & **Santu KS.** Tiny guardians of the water: understanding the role of phytoplankton as a live

- feed in aquaculture. *SAFPBBCA* (2024).. Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
20. Arun Krishna M.S, Akhil K.S, Anavi Anchalose, Neeraja M.R, Melby Emmanuel & **Santu K.S.** *SAFPBBCA* (2024). Innovative approaches to glass tank culture: grass carp seed rearing insights. Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
 21. Jithesh Benny, Akhil K.S, Arun Krishna M.S, Anavi Anchalose, Neeraja M.R, Melby Emmanuel & **Santu K.S.** *SAFPBBCA* (2024). Aquatic serenity: low-maintenance practices in ornamental fish culture. Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
 22. Rihana C.R, Murali Krishna P.M, Radhika R & **Santu K.S.** Diversity and distribution of mangrove associated crabs along cochin costal belt, south west coast of India. *SAFPBBCA* (2024). Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
 23. Athira V.S, Muralikrishna P.M, Gouri S Mydhili & **Santu K.S.** Study on mangrove crab diversity from Malipuram Aqua-Tourism Centre Kochi, India. *SAFPBBCA* (2024). Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
 24. Gouri S Mydhili, Muralikrishna P.M & **Santu K.S.** Diversity and abundance of phytoplankton in the mangrove ecosystem at Malipuram Aqua Tourism Center, South West Coast of Kerala, India. *SAFPBBCA* (2024). Abstract Proceedings of Albertian Knowledge Summit: Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA).
 25. Gouri S Mydhili, Navaneeth Francis, Muralikrishna P.M., **Santu K.S.** and Radhika R. Exploring Seaweed and Molluscan Diversity and Distribution in St. Mary's Islands, Udupi: A Preliminary Study. MARICON International Seminar. 2024 April 8-10.
 26. Nandana K. N., Ashmin Antony; Avani Vasanth; Mariya Femi; Jayakrishnan P.M. and **Santu K.S.** Study of rearing and breeding of angle fish (*Pterophyllum scalare*) in glass aquarium: a sustainable income source for student entrepreneurs. MARICON International Seminar. 2024 April 8-10.
 27. Adithya P.S., Muralikrishna P.M., Navaneeth Francis., Nandana K.N., Nandana Sanil., **Santu K.S.** Exploring the effects of salinity on survival and reproductive characteristics of *Artemia* populations in laboratory conditions. MARICON International Seminar. 2024 April 8-10.

28. Monica O.T., Joyal Cleetus, Agnal K.M., Ashin Prince., Hrday Santhosh, **Santu K.S.**, Bijoy V.M., C Shyam Sundar and Muralikrishna P.M. (2025). Microplastic Contamination in Ghost Crabs (*Ocypode* spp.) from Selected Sandy Beaches of Ernakulam, Kerala, India: A First Report on Bioindicator Insights and Environmental Implications. Role of Aquaculture in Mitigating Climate Change and Restoring Critical Habitats an international Conference on Multidisciplinary Research organized by the Research Department of Fisheries and Aquaculture in association with Office of the Dean, Research, St. Albert's College (Autonomous) on 6th February 2025.
29. Hrday Santhosh, Monica O.T., Joyal Cleetus, Agnal K.M., Ashin Prince., **Santu K.S.**, C. Shyam Sundar and Muralikrishna P.M. (2025). Diversity and Ecological Significance of Ghost Crabs (*Ocypode* spp.) from Kuzhuppilly Beach, Kerala. Role of Aquaculture in Mitigating Climate Change and Restoring Critical Habitats an international Conference on Multidisciplinary Research organized by the Research Department of Fisheries and Aquaculture in association with Office of the Dean, Research, St. Albert's College (Autonomous) on 6th February 2025.
30. Arun Krishna M. S., Neeraja M.R., Amal Joseph K.J., and **Santu K.S.** (2025). Mini Eco-Aquaponics: The Future of Sustainable Home Ornamental Fish Culture. International Conference on Marine Biodiversity, Genomics, and Sustainable Development (ICMBGSD) on 9-11 2025 at CUSAT, Cochin.

GENE BANK SUBMISSIONS

Sl. No.	Organism	Accession numbers
1	<i>Allodiptomus mirabilipes</i> *	KU613354, KU613355, KU613357
2	<i>Acartiella keralensis</i> *	KU215881
3	<i>A. gravelyi</i> *	KU253711, KU613359
4	<i>Bestiolina similis</i>	KT149368, KT149367, KP068660
5	<i>Centropages furcatus</i>	KT149369, KT149370
6	<i>Heliodiptomus cinctus</i> *	KT153577, KU161097, KU161098, KU161099, KU161100, KU587448
7	<i>L. pavo</i>	KT204434, KX090443
8	<i>L. pectinata</i>	KT204435, KU064721, KX090442
9	<i>L. minuta</i>	KU891815
10	<i>Paracalanus crassirostris cochinensis</i> *	KT119520
11	<i>Pseudodiptomus binghami</i> *	KY514167, KY514168, KY628998-KY629000
12	<i>P. annandalei</i>	KP068661, KU613358, KU672399, KT149371
13	<i>P. mertonii</i> *	KU587440, KU587441, KX090446
14	<i>P. malayalus</i> *	KU198394, KU587442, KU587443, KU587444, KU587445, KU587446, KU587447, KU891816, KU198393

15	<i>P. tollingerae</i> *	KU891812, KU891813, KU891814
16	<i>Acartia southwelli</i>	KU613356, KU613357
17	<i>A. bilobata</i> *	KU672400
18	<i>C. tenuiremis</i> *	KU997694
19	<i>C. orisiini</i> *	KX090444
20	<i>P. aculeatus</i>	KX090445
21	<i>P. serricaudatus</i>	KX100481
22	<i>Subeucalanus subcrassus</i>	KX100482
23	<i>Dendronereis aestuarina</i>	KT964060
24	<i>Diopatra dentate</i>	KJ576838
25	<i>Diopatra sp.</i>	KJ576839
26	<i>Glycera sp.</i>	KJ576840
27	<i>Pseudosesarma glabrum</i> *	KY828234, KY828235, KY828236, KY828237
28	<i>Neosarmatium malabaricum</i> *	MH267804, MH267805, MH267806
29	<i>Pseudosesarma crassimanum</i> *	MH290823, MH290824
30	<i>Parasesarma plicatum</i> *	KX228915.1, KX228914.1, KX228913.1, KX228912.1,
31	<i>Metapograpus thukuhar</i> *	MH298869, MH298870
32	<i>Villorita cyprinoides</i>	MH593259.1, MH593258.1, MH593257.1, MH593255.1, MH593256.1, MH593254.1, MH593253.1, MH593252.1, MH593251.1
33	<i>V. cornucopia</i>	MH593260, MH593261, MH593262

***primary barcode submission: 17**

WORKSHOPS ATTENDED

1. Statistical software PRIMER-6 on 17th & 18th March 2012
2. Data processing and presentation in Marine sciences using open-source software tools on 24-28 march 2014.
3. **2nd-09th November, 2023.** Participated in the 7 Day National level Online Faculty Development Program on Outcome Based Education and Essential AI Tools for Teachers, organised by The Internal Quality Assurance Cell (IQAC) and The Department of Computer Science, St. Albert's College (Autonomous), Ernakulam, in association with The Kerala State Higher Education Council (KSHEC).
4. **20th-24th November, 2023.** Participated in 5 Day Training Workshop for Syllabus Preparation for Four Year Under Graduate Programmes (Fyugp) of Mahatma Gandhi University, Held at St. Albert'S College (Autonomous), Ernakulam in Aquaculture.
5. **14th -21st October 2024.** Participated in 5 day Faculty Development Programme on Developing MOOCS organized by the Content Development Team in association with IQAC and office of the Dean, Training and Development.
6. **29th – 31st January 2025.** Participated in 3-Day Workshop on Marine Data 4 Ocean Health organised by Copernicus, Marine Service and Mercator Ocean International held online.

ORGANISING COMMITTEE MEMEBER OR CONVENER

1. **Organising committee member: 10th – 14th May, 2016:** 1st International training workshop on Taxonomy of Bivalve mollusks ITW'01, organized by Dept of Marine Biology, Microbiology and Biochemistry, CUSAT and Dept of Aquatic Biology and Fisheries, University of Kerala in collaboration with National Museum of Wales and School of Ocean Sciences, Bangor University, North Wales, United Kingdom.
2. **Organising committee member: 06th – 09th February, 2018:** 2nd International training workshop on Meiofauna ITW'02, organized by Dept of Marine Biology, Microbiology and Biochemistry, CUSAT and National Biodiversity Authority, India, in collaboration with UGC, KSCSTE, Government of Kerala, University of Kerala and University of Texas at San Antonio, USA.
3. **Organising committee member: 15th-16th January, 2023**Albertian Knowledge Summit'23. Research Department of Fisheries and Aquaculture, St. Albert's College (Autonomous).
4. **Convener: 28th February,** National Seminar in connection with National Science Day 2023 conducted by RDFA, St. Albert's College (Autonomous).
5. **Convener: 15th -16th January 2024.** Albertian Knowledge Summit'24; Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA). The Research Department of Fisheries and Aquaculture & The Office of the Dean, Research, St. Albert's College (Autonomous), Ernakulam, Kerala, India.
6. **Convener: 6th February 2025.** Albertian Knowledge Summit'24 Role of Aquaculture in Mitigating Climate Change and Restoring Critical Habitats an international Conference on Multidisciplinary Research organized by the Research Department of Fisheries and Aquaculture in association with Office of the Dean, Research, St. Albert's College (Autonomous), Ernakulam, Kerala, India.

CONFERENCES & SEMINARS ATTENDED

1. **6th – 8th March, 2019: Attended** in the International Conference on Benthos organized by Dept. of Marine Biology, Microbiology and Biochemistry, CUSAT and Dept. of Aquatic Biology and Fisheries, University of Kerala in collaboration with National Museum of Wales and School of Ocean Sciences, Bangor University, North Wales, United Kingdom.
2. **15th September 2018: Participated** in the International Coastal Clean-up Day organised at Kochi, Kerala by National Centre for Coastal Research (NCCR) and Dept. of Marine Biology, Microbiology and Biochemistry, CUSAT
3. **12th December 2017: Participated** in the National Conclave on Mangrove Conservation held at Bolghatty Palace, Cochin.
4. **02nd – 03rd December 2015: Paper presented** in the International Conference on Biodiversity & Evaluation- Perspectives & Paradigm shifts held at Sree Sankara College, Kalady.
5. **05th – 08th February 2015: Presented a paper** entitled Assemblage & Community Structure of Meroplankton in Selected Estuarine Systems of Kerala, India in the World Ocean Science Congress 2015 organized jointly by Swadeshi Science Movement, Kerala and Kerala University of Fisheries and Ocean Studies, Kochi.

6. **12th -13th March 2015: Participated** in the National Seminar on 'Marine Ecosystem Health' (MEH 2015) organized by Dept. of Marine Biology, Microbiology and Biochemistry, CUSAT.
7. **20th – 21st March 2014: Participated** in the National Seminar on Climate Change and Marine Ecosystems (CCME-2014) organised by Department of Marine Biology, Microbiology and Biochemistry, CUSAT.
8. **15th -16th September 2014: Paper presented** in the 3rd International Conference on Hydrology & Meteorology organized by OMICS Publishing Group in Hyderabad International Convention Centre, India.
9. **02nd February 2011: Participated** in the seminar on Wetlands-Values and Functions held by Department of Marine Biology, Microbiology and Biochemistry, CUSAT.
10. **16th December 2011: Participated** in the National seminar on Greening the Forests for Safe Living held at School of Marine Sciences, Cochin University of Science and Technology, organized by Swadeshi Science Movement, Kerala and School of Marine Sciences & School of Industrial Fisheries, Cochin University of Science and Technology, Kochi as part of Swasraya Bharat 2011.
11. **08th December 2011: Participated** in the seminar on Harmful Algal Blooms (HAB) held at Central Institute of Fisheries Nautical and Engineering Training, (CIFNET), Kochi, as part of Swasraya Bharat 2011.
12. **24th -26th October, 2010: Attended** the International Conference on Climate Change and Environment organised by Secretariat national Institute of Science and Information Resources, New Delhi.
13. **17th December 2010: Participated** in the National seminar on Biodiversity held at Marine Sciences, CUSAT, Kochi, organized by Swadeshi Science Movement, Kerala and School of Marine Sciences, CUSAT, Kochi.
14. **25th April 2022 to 28th April 2022: Attended** the International leaders Conference conducted by Divina Misericordia International ministries 2022-2023, Mount Carmel Retreat Centre, Trivandrum.
15. **16th January, 2023.** Presented a paper on Albertian Knowledge Summit'23. Migheya Rivyra and Santu K.S. Report on Mass swarming of Cladocera (*Moina* sp.) from an Old Abandoned Well, Kerala and its Importance as a Potential Candidate in Live Feed Aquaculture. Research Department of Fisheries and Aquaculture, St. Albert's College (Autonomous).
16. **16th January, 2023.** Presented a paper on Albertian Knowledge Summit'23. Paul Sharon Simenthy, Sandra K.B and Santu K.S. culture techniques of infusoria and its importance in larval rearing of fish larvae. Research Department of Fisheries and Aquaculture, St. Albert's College (Autonomous).
17. **16th January, 2023.** Presented a paper on Albertian Knowledge Summit'23. Murali Krishna, Navaneeth Francis, Vivek Chandrasekharan, Anokh Sajeev Marathara and Santu K.S. Effective utilization of covid-19 pandemic by ornamental fish breeding. Research Department of Fisheries and Aquaculture, St. Albert's College (Autonomous).
18. **16th January, 2023.** Presented a paper on Albertian Knowledge Summit'23. Muhammad Jassim, Liya, Doyel, Murali Krishna & Santu K S. Unlocking the Potential of Sustainable Aquaculture through Mastering the Art of Home-grown Artemia Culture. Research Department of Fisheries and Aquaculture, St. Albert's College (Autonomous).
19. **29th- 30th May, 2023.** Participated as for Vembanad Fish Count 2023, conducted by ATREE, at Vembanad Lake, Kerala, India.

20. **15th -16th January 2024. Presented** papers on Albertian Knowledge Summit'24; Sustainable aquaculture and fisheries practices: balancing biodiversity conservation and climate adaptation (SAFPBBCA). The Research Department of Fisheries and Aquaculture & The Office of the Dean, Research, St. Albert's College (Autonomous), Ernakulam, Kerala, India.
21. **8-9th April 2024**, presented papers on MARICON 2024 organised by School of Marine Sciences, CUSAT.
22. **07-10th February 2025**, presented a paper titled Light matters: evaluating the effects of LED spectra on aquatic plants development: A preliminary study in the poster presentation session under the subject area Fisheries & Veterinary Sciences on 37th Kerala Science Congress organised by Kerala State Council for Science Technology and Environment (KSCSTE) at Kerala Agricultural University, Vellanikkara, Thrissur.

MEMBERSHIP OF SOCIETIES

- Society of Marine Biologists (SOMB)
- Marine Biology Alumni Association (MBAA)

SUBJECTS STUDIED

Marine Biology, Biochemistry, Planktonology, Cytology and Genetics, General Physical Oceanography, Marine Microbiology, Marine Biotechnology, Chemical Oceanography, Coastal zone Management, Fish and Fisheries, General Animal Physiology, Marine Pollution, Biostatistics, Aquaculture, Marine Ecology and Fish Pathology.

INSTRUMENTS HANDLED

- **Microbiology:**
 - sterilization techniques
 - preparation of various media
 - preparation and maintenance of pure cultures
 - antibiotic assay
 - isolation and purification of microbes
 - Media optimization
 - Response surface methodology
- **Biochemistry:**
 - Estimation and quantification of biological compounds
 - Biochemical analysis of plant extracts
- **Instruments:**
 - Spectrophotometer
 - Microscopy
 - PH meter
 - Electrophoresis
 - Paper chromatography
 - Pipetting (Electronic and mechanical)
 - Centrifuge units
 - PCR
 - Gel electrophoresis
 - UV – Visible Spectrophotometer

FIELD VISITS & EDUCATIONAL TRIPS

- Silent Valley National Park, Kerala
- Lakshadweep islands - Kavaratti, Kalpeni and Minikoyi, India
- Sericulture Research & Development Council, Kottayam
- Banasura Dam, Palakkadu
- Goa-NIO Institute
- St. Mary's Island, Uduppi

REFERENCES

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DECLARATION

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above.



SANTU K.S.