

Dr. P.SHAIJU

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PRESENT STATUS

Working as Assistant Professor in the Centre for Science in Society (C-SiS), Cochin University of Science and Technology, Kerala, India.

EDUCATIONAL BACKGROUNDS

Course & Year of Passing	Institution	University/Board	Grade
PhD	CUSAT	CUSAT	
MSc Hydrochemistry	School of Marine Sciences, CUSAT	CUSAT	First Rank Distinction
B.Sc Chemistry	S.N.D.P. College, Koyilandy	University of Calicut	First Class
Pre Degree Science	S.N.College, Chelannur	University of Calicut	First Class
S.S.L.C	AMHS, Poovambayi	Board of Public Examinations, Kerala	Distinction

WORK EXPERIENCE

- Was a UGC-RFMS Fellow.
- Worked as a Junior Research Fellow at National Institute of Oceanography (CSIR) in a project entitled, “Marine Research Living Resources” funded by Department of Ocean Development (DOD), Government of India.

- More than 15 years of teaching experience in various private and governmental institutions.
- Involved in the projects “Marine Research Living Resources”, “Near Shore Dynamics of Kerala Coast” funded by Department of Ocean Development (DOD), Government of India and “Modeling of Cochin Backwaters” funded by ICMAM, Government of India.
- More than 200 days cruise experience in various research vessels of Government of India. Covered whole EEZ of India including the Bay of Bengal, the Arabian Sea and the Andaman Sea as the part of the research work. Undertook various scientific works like sampling, analysing, and data processing etc. onboard ship and at an ISO certified lab.

RESEARCH EXPERIENCE

- 14 years of research experience in Marine Sciences.

PROJECT WORKS DONE

- Project Investigator of science popularization project funded by Kerala State Council for Science, Technology and Environment “Know Our Water” Water Literacy Programme
- PhD Thesis: Ecological Interpretation of Trace Metal Contents and Contaminant Source Characterization of Sediments of Cochin Backwaters.
- M.Sc Dissertation: Physico Chemical and Biological Water Quality Parameters of Well and Borewell Water in Cochin Corporation-Special Reference to Fort Kochi.
- Involved in the projects “Marine Research Living Resources”, “Near Shore Dynamics of Kerala Coast” funded by Department of Ocean Development (DOD), Government of India and “Modeling of Cochin Backwaters” funded by ICMAM, Government of India.
- Was an NIO team member of Tsunami Environmental Impact studies.
- Project Investigator of the project “Know Our Water – Water Literacy Programme” funded by Kerala State Council for Science, Technology and Environment (2017-18).

TRAINING UNDERGONE

- One week in lab training at NIO to maintain good laboratory practice at an ISO lab.

- Participated in the national workshop on residue monitoring in food and pollution monitoring conducted by Central Institute of Fisheries Technology (CIFT). Trained in the instruments like LC-MS, HPLC, and GC-MS, FT-IR, ICP etc.
- 5 days Training on “Statistical Data Analysis and Modeling” conducted by Department of Statistics, CUSAT.

POSITIONS HELD

- Student Magazine Editor – SNDP College, Koyilandy
- Fine Arts Secretary - SNDP College, Koyilandy
- President - Kerala Sasthra Sahithya Parishad, Ernakulam Town Unit
- President – Society of Aquatic Chemists
- Member of State Committee– All Kerala Research Scholars Association (AKRSA)
- Academic Council Member – CUSAT
- Member – Ocean Society of India
- President – Cochin University Research Scholars Association (CURSA)
- Member - Indian Society of Analytical Scientists, Kerala Chapter

PUBLICATIONS AND PRESENTATIONS

1. “Recovery of an estuary in the southwest coast of India from tsunami impacts”- *Environmental Monitoring and Assessment* (Received: 23 July 2005 / Accepted: 1 March 2006)
2. “Instrumental methods in pollution analysis”-*Proceedings of UGC Sponsored National Seminar, “Sensortech-2005”*.
3. “Nutrient Environment of Red Tide- Infested Waters off South-West Coast of India”- *Environmental monitoring and assessment 143(1-3):355, 2008 Aug*
4. “Red tide of *Noctiluca miliaris* off south of Thiruvananthapuram subsequent to the ‘stench event’ at the southern Kerala coast”-*Current Science, Vol. 89, No. 9, 10 November 2005, pp. 1472.*
5. Effect of Temperature Inversion on Cyclonic Induced Nutrient Pump-A Case Study of the Bay of Bengal During Winter-**Communicated to Sager Sampada Proceedings of Department of Ocean Development, Government of India”.**

6. A study on Safety of Drinking Water in the Fort Cochin Area, *Paper presented in the 19th Kerala Science Congress.*
7. Assessment of DDT and Its Metabolites in the Sediments of Kuttanad- A Tropical Backwater Paddy Field Ecosystem, *Paper presented in the 19th Kerala Science Congress.*
8. Modified user-friendly water sampling bottles-*Paper presented in the National Seminar “Aquasem” organized by Department of Chemical Oceanography, CUSAT.*
9. Improved Bottom water sampling devices - *Paper presented in the National Seminar “Aquasem” organized by Department of Chemical Oceanography, CUSAT.*
10. Seasonal and Spatial Hydrography of a Eutrophic Tropical Estuary. *Paper presented in the National Seminar “osicon” organized by Ocean Society of India at Andhra University.*
12. The Hydrography of Six Rivers Flowing to a Tropical Estuary- *Paper presented in the National Seminar “Aquasem” organized by Department of Chemical Oceanography, CUSAT.*
13. Eutrophication induced changes in benthic community structure of a flow-restricted tropical estuary (Cochin backwaters), India. *Environmental Monitoring and Assessment., DOI 10.1007/s10661-010-1594-1*
14. Spatial and Temporal Variation of Folin-Phenol active substances in a tropical estuarine and coastal system. **Paper presented** in the National Seminar , CUSAT.
15. **Script for one year (2011) science programme titled Moolakangal Katha Prayumpol broadcasted by All India Radio, FM-Kochi as a part of the celebrations of International year of Chemistry.**
16. Toxic Metals Enrichment in the Surficial Sediments of a Eutrophic Tropical Estuary (Cochin Backwaters, Southwest Coast of India). **The Scientific World Journal Volume 2012 (2012), Article ID 972839, 17 pages.**
17. Mobilization of trace metals in a tropical turbid estuary influenced by a monsoon season. **Environmental Earth Sciences, DOI 10.1007/s12665-012-2170-5, 2013**
18. “Know Our Evolving Biosphere” – **Oral presentation** at St. Albert’s College, Ernakulam, (17-12-2014).
19. "Cochiye Kathirikkunnu Itai Itai". **Mathrubumi Weekly (November 15-21) 64-77. (Popular Article in Malayalam Vernacular), 2015.**
20. “Ozone and Climate Change” – **oral presentation** at St.Thomas’ College, Thrissur, sponsored by Kerala State Council for Science, Technology and Environment. (22-09-2016).

21. "Climate Change"- **oral presentation** at Sacred Hearts College, Ernakulam, sponsored by Kerala State Council for Science, Technology and Environment. (30-09-2016).
22. "Chandranu Shastramariyam Adyapakarkariyilla". **Mathrubhumi Weekly (January 17-23) 50-65. (Popular Article in Malayalam Vernacular), 2016.**
23. "Swayam bhojana koshangalute rahasyam"- **Shasthra Keralam Magazine (Popular Article in Malayalam Vernacular- November-2016)**
24. "Science and Scientific Temperament"- **oral presentation** at NSS College, Mancheri, sponsored by Kerala State Council for Science, Technology and Environment. (02-12-2016).
25. "Thaan thaan nirantharam thinnunna koshangal" – **Deshabhimani Kilivathil (Popular Article in Malayalam Vernacular- October-2016)**
26. "On Brahmapuram Solid Waste Treatment Plant" – **oral presentation-** Seminar on waste treatment of Kochi conducted by Kerala Sasthra Sahithya Parishad. 2016 October 16.
27. "Water Quality and Health" **paper presented in Seminar** conducted by Centre for Science Communication in collaboration with Directorate of Public Relations and Publications and Department of Applied Chemistry, CUSAT. 10-01-2017
28. "Mesenteric Science- puthiya avayavaththiloote chikithsayute puthuyugam" - **Deshabhimani Kilivathil (Popular Article in Malayalam Vernacular- January-2017)**

BOOKS

1. " Rasathantra Padanapravarthana Sanchika"- a book for High School students, Based on the concept of "activity-oriented learning". Published by Insight books, Kozhikode.
2. "Sasthra Chinthakal" (Thoughts on Science) - a popular science book Published by Page Publications, Calicut and was accepted by Sarva Siksha Abhiyan.
3. "Wetland Pollution in Kerala" – a chapter in the Book "Wetlands and Biodiversity" published by Cochin University of Science and Technology (2017).
5. "Water Safety...Health Safety" – Booklet on water awareness published by Department of Chemical Oceanography, CUSAT(2017).
6. 'Moolakangalkku Oraamukham (An Introduction to Chemical Elements)' - a popular science book Published by Cochin University of Science and Technology (2017)
7. 'Jeevajalam: Gunanilavaara Maanadandangal, Parishodhanakal' (Water for Life: Water Quality Criteria and Tests) - a popular science book Published by Cochin University of Science and Technology, funded by KSCSTE