



Dr. S. Usha

Assistant Professor of Zoology

ADDRESS & EMAIL:

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QUALIFICATION:

M.Sc. Ph.D

DATE OF JOINING

03.12.2004

EXPERIENCE IN YEARS:

15 years

ADMINISTRATIVE DISTINCTION

1. Campus Placement- Organising Secretary of Campus Recruitment drive in S N College for Women college and Technopark on 22nd and 23rd June, 2012 at SNCW, Kollam
2. Nodal Officer of MHRD- Conducted AISHE survey in S N College for Women, Kollam from 2010 to 2015.
3. Member of committee in Formulating of Proposal for new a Interdisciplinary course in Innovative Programme under UGC scheme. SNCW, Kollam, 2012
4. Member 12th Plan Proposal committee, SNCW, Kollam, 2012
5. Joint Co-ordinator of CBCSS I year Degree Admissions. SNCW, Kollam during 2013 & 2020
6. Member RUSA committee, SNCW, Kollam, 2013-15,2017-2020
7. Member IQAC committee, SNCW, Kollam,2013, 2017-2020

PAPER PRESENTATIONS

1. "An evaluation of Drinking Water in a few public places in Kollam" on 09/12/2009 at S N College for Women, Kollam
2. "Implications on the quality of drinking water in the residential areas of Kollam Corporation". (First Indian Biodiversity Congress IBC 2010, 27-31 December 2010 at Chandrasekharan Nair Stadium, TVM.)

3. Presented a paper entitled “Deterioration of Lake Sasthamkotta- Our main fresh water Resource” at the Diamond Jubilee seminar series at S N College for Women, Kollam on 01/02/2011.
4. Presented a paper entitled “An Evaluation of Chemical Constituents of fins of an economically important culture fish, *Cyprinus carpio*” at the 21st Swadeshi Science Congress during November 7-8, 2011 at CEPC laboratory, Cashew Bhavan, Kollam, Kerala.
5. Presented a paper entitled “Water Quality of Wells in relation to Health in Kollam Corporation Area.” at the Inter National conference on Climate change, Forest Resource and Environment at Department of Environmental Sciences, Thiruvananthapuram, Kerala.
6. Presented a paper entitled “A computational Method to aid the calculation of dissolved Oxygen and carbon dioxide in water” at the National conference on Recent Advances in Computational Biology at Govt. Arts College, Karur, Tamil Nadu on 9th March 2012
7. Presented Paper on “Fresh Water Pond Polyculture- impact of quality of water” at the UGC sponsored National Seminar on Biodiversity- its conservation for sustainable future on 27th and 28th March, 2012 at St. Thomas College, Ranni, Kerala.
8. Presented a Paper on Quality of Water in Polyculture Pond- a case study at the UGC sponsored National Seminar on Climate change and its impact on biodiversity- an Indian perspective on January 17-18, 2013 at S N College, Sivagiri, Varkala.
9. Presented a Paper on A preliminary study of heavy metal content bin an economically important fish *Etroplus suratensis* at the UGC sponsored National Seminar on Recent trends in Bio-nano photonics on December 19-20, 2013 at S N College for Women, Kollam.
10. Presented a Paper entitled An Evaluation of heavy metal content in the muscles of a few edible organisms collected from Ashtamudi lake at the UGC sponsored National Seminar on Coping with academic stress- need of the hour on February 20-21, 2014 at S N College for Women, Kollam
11. Presented Paper entitled “An Assessment of the heavy concentrations in water, sediment, plankton and fish of Lake Ashtamudi, Kollam,Kerala” at the UGC sponsored National Seminar on “Ethnic knowledge of Biological Resources in contemporary plant sciences” on August 28-29, 2014 at S N College for Women, Kollam

12. Presented Paper entitled “Child Injury Prevention” at the UGC sponsored National Seminar on “Fitness and Lifestyle disease management” organized by Department of Physical Education, S N College for Women, Kollam, during March 26-27, 2015.

PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS

1. Participated in the National Symposium on Biotechnology of 21st century from February 2-3, 2006 held at Fatima Mata National College, Kollam.
2. Participated in the Lions- Quest Skills for Adolescence Workshop from 13th to 15th October, 2006 at Pathanamthitta, Kerala.
3. Participated in the National Symposium on Recent trends in biodiversity conservation and Environmental biotechnology held during January 11 & 12, 2007 at Fatima Mata National College, Kollam.
4. Participated in the workshop on Formulation of Research project proposals for funding, on 26th September, 2007 by PG & Research Dept. of Zoology, S N College, Kollam
5. Participated in the state level workshop on Captive Breeding of Fish from September 24-16, 2009 by PG & Research Dept. of Zoology, Fatima Mata National College, Kollam.
6. Attended the one day work shop on On-line enrolment, on-line registration, on-line Hall ticket & on- line nominal rolls for UG courses conducted by University Computer Centre on 23-09-2010 held at Senate House campus, University of Kerala, Tvm.
7. Participated in the college level training programme in General Informatics, S N College for Women, Kollam from 13th- 15th December, 2010.
8. Participated in the ‘Insplore’ held at Kerala Science & Technology Museum on 24th and 25th January, 2011, Thiruvananthapuram.
9. Participated in the IT Mission sponsored computer training programme from 31-01-2011 to 05-02-2011. Thiruvananthapuram
10. Participated in the Value @ Amrita Workshop on Virtual labs on 24/09/2011 at Amritapuri campus, Ernakulam, Kerala.
11. Participated in the State level energy conservation programme organized by NSS in S N College for Women, Kollam from on 18-02-2012.

12. Participated in the International Workshop on Risk Reduction and Contingency planning organized by Department of Revenue and Disaster Management held during 9th and 10th March 2012 at Kanakakkunnu Palace Grounds, Thiruvananthapuram, Kerala.
13. Participated in the National Workshop on Environmental Impact assessment organized by Department of Environmental Sciences held during 28-31 march,2012 at Department of Environmental Sciences, Tvm.
14. Participated in the workshop on Red Ribbon Express Campaign organized at Kollam junction Railway station on 3rd and 4th May,2012.
15. Participated in the Workshop organized by Nehru Yuva Kendra-Kollam, in association with Youth information centre, sarada Vilasini vayanashala, Kollam from 9th-10th June,2012.
16. Participated in a National Workshop on Thesis writing skills held on 28th -30th June,2012 organized at Christ University Nodal office, Vazhuthacaud, Thiruvananthapuram, India.
17. Participated in the Workshop for Nodal officers of AISHE organized by MHRD held on 19.10.2012 at Senate House campus, University of Kerala, Tvm.
18. Participated in the Orientation programme in connection with UG online admission 2013-14 held at Senate House campus, University of Kerala, Tvm on 18/05/2013.
19. Participated in a National Workshop on “Biostatistics for Research (Basic Principles and Advanced Tools)” held during 19th -21st March,2015 organized at Cashew Bhavan, Kollam By CEPC Laboratory and TKM Arts & science College, Kollam. India.

SEMINARS AND CONFERENCES ATTENDED

- Participated in a National seminar on “Inland Water Resources and Environment “ held during 2-4 February,2004 at Kariavattom, Thiruvananthapuram.
- Participated in a UGC sponsored National seminar “ Spectroscopy as a tool for structural elucidation “ organized by PG Department of Zoology, S N College for Women, Kollam during August 24-25,2005.
- Participated in National seminar on “ Waste Management Techniques “ organized by Department of Environmental Sciences held during 14-15 October,2005 at Kariavattom.

- Participated in a National seminar on “Human Resources Development in Bioinformatics” organized by Department of Biosciences, on 21st February 2006.
- Participated in a UGC sponsored National seminar “Biotechnology for a clean Environment “organized by PG and Research Department of Zoology, S N College, Kollam October 15-16,2008.
- Participated in the National seminar on “Current status of Environmental issues-strategies for control and management “ organized by the Department of Zoology, TKM College of arts and Science, Kollam On 22-01-2007.
- Participated in a UGC sponsored National seminar on“ Biofuels- Its importance in the present scenario “ organized by the Department of Botany, S N College for Women, Kollam on 28 February 2007.
- Participated in a seminar on “ Biodiversity conservation and sustainable development “ organized by PG and Research Department of Zoology, S N College, Kollam October 15-16,2008.
- Participated in a UGC sponsored National seminar “ Biotechnology for a clean Environment “ organized by PG and Research Department of Zoology, Fatima Mata National College, Kollam on 28th February , 2008 at F M N College, Kollam.
- Participated in the seminar “ Warm earth” in the R Sanker Birth Centenary Seminar held on 30-09-2008 at S N College for Women, Kollam.
- Participated in a UGC sponsored National seminar “ Biotechnology for a clean Environment “ organized by PG and Research Department of Zoology, S N College, Kollam October 15-16,2008.
- Participated in the 21st Kerala Science Congress held at Kollam during 28-31 January 2009.
- Participated in a UGC sponsored National seminar “ Emerging trends in Green Biotechnology” held at S N College for women from September 24-25,2009.
- Attended a National seminar KUNSED -2009 on “ Climate change and Water resources ” held by Department of Environmental Sciences, Thiruvananthapuram from October 8-9,2009.
- Participated in the First Indian Biodiversity Congress IBC 2010, held from 27-3, December 2010 at Chandrasekharan Nair Stadium, TVM.

- Participated in a National seminar “ Climate change: Global Risks, Challenges and Decisions “ organized by PG and Research Department of Zoology, Fatima Matha National College, Kollam during January 6-7,2011.
- Participated in the 44th state annual conference of Kerala government medical officers association on January 29th 2011 at IMA hall, Chackai, Thiruvannathapuram.
- Participated in the seminar series Vision 2010-11, Diamond jubilee seminar series sponsored by PTA in S N College for Women, Kollam on 01-02-2011.
- Attended the 21st Swadeshi Science Congress held during November 7-8,2011 at CEPC laboratory and technical division, Cashew Bhavan, Kollam, Kerala.
- Attended an International Conference on “ Climate change, Forest Resource and Environment ” organized by Department of Environmental Sciences, Thiruvananthapuram from December 9-11,2011.
- Participated in an International Conference on “ Nanomaterials – Synthesis, Characterisation and Applications held at M G University, Kottayam, Kerala from 12-15th January 2012.
- Participated in a UGC sponsored National seminar “ Recent advances in Computational Biology” organized by PG and Research Department of Zoology, Government Arts College, Karur, Tamil Nadu, India on 9th March, 2012.
- Participated in a National seminar on “Recent Trends and future prospects of Biodiversity and Conservation” organized by Department of Zoology, S N College, Punalur, Kollam from March 15-16,2012.
- Participated in a UGC sponsored National seminar “ Biodiversity – its conservation for Sustainable Future “ organized by Departments of Botany and Zoology, St. Thomas College, Ranni, Pathanamthitta, Kerala from March 27-28, 2012.
- Participated in a UGC sponsored National seminar “ Biotechnology Vs Biodiversity” organized by Department of Zoology, S N College for Women, Kollam on 21st and 22nd November,2012.
- Participated in a UGC sponsored National seminar “ Climate Change and its Impact on Biodiversity- an Indian Perspective “ organized by Department of Zoology, Sree Narayana College, Sivagiri, Varkala, Tvm from January 17 -18, 2013.

- Participated in a UGC sponsored National seminar “ Recent trends in Bio-Nano Photonics organized by Department of Physics, S N College for Women, Kollam on 19st and 20nd December,2013.
- Participated in a UGC sponsored National seminar “ Coping with academic stress –need of the hour” organized by Department of Home Science, S N College for Women, Kollam on 20th and 21st February 2014.
- Participated in a UGC sponsored National seminar “Ethnic knowledge of Biological Resources in contemporary plant sciences” organized by Department of Botany, S N College for Women, Kollam on 28th and 29st August, 2014.
- Participated in a UGC sponsored National seminar “ Fitness and Lifestyle disease management “ organized by Department of Physical Education, S N College for Women, Kollam, during March 26-27,2015.

INVITED LECTURES AS RESOURCE PERSON

- Kerala State IT mission course Resource person from 2010-2015,2017 -2020

PUBLICATIONS IN BOOKS OR JOURNALS

- V R Prakasam and Usha S. Morphometric and Meristic characteristics of regenerated pectoral fin of *Cyprinus carpio*. *Excelsior* 3: 33-34 (2000)
- S Usha and Prakasam V R. Fin Erosion of carp fishes in relation to waterquality. *Journal of Ecobiology* 15(5): 365-370 (2003)
- S Usha and Prakasam V R. Morphology, Composition and Development of Fins in common carp, *Cyprinus carpio*. *Indian Journal of Fisheries* 51 (4): 471-480 (2004)
- S Usha and Prakasam V R. Fins of carp fish, *Catla catla* in relation to Ecology, Morphology, Composition and Development. *Environment & Ecology* 23 (1): 106-112 (2005)
- S Usha and Prakasam V R. Fin characteristics of carp fishes in relation to ecological niches. *Journal of Ecobiology* 20(1): 97-99 (2007)

- P S Rakesh, Usha S, Renjini B A, Subhagan S and Shaji M. Risk factors for Hepatitis B infection- a community based case control study. Indian Journal of Basic and Applied Medical research. Dec-2013; Vol.-3, Issue-1, P. 172-180
- S Usha, P. S. Rakesh, S. Subhagan, M. Shaji and K. Salila. A study on contamination risks of wells from Kollam district, southern India. Journal of Water, Sanitation and Hygiene for Development. Accepted in 16 July 2014. Available on line 11 August 2014.
- Immunomodulatory Effect of Triphala Bio-Fortification on *Oreochromis mossambicus*. International Journal of Science and research (IJSR)
- Growth promotion Effect of Triphala Bio-Fortification on *Oreochromis mossambicus*. International Journal of Science and research (IJSR)
- One Book- Methodology and Perspectives of Zoology-CBCSS SEMESTER III, Methodology and Perspectives of Zoology. 978-81-930754-6-3.

MEMBERSHIP IN PROFESSIONAL BODIES

- Life member of international body Global Energy Parliament(GEP)
- Life member of FANSA in Kerala chapter
- Life member of International Journal Bioscan.
- Life Member Sree Narayana Samskarika Samithy
- Life member of Oiska
- Member Board of Studies (Pass) in Zoology of University of Kerala with effect from November, 2014.
- Member Board of Studies in Zoology in FMN College, Kollam (Autonomous)

OTHER ACHIEVEMENTS

- Campus Placement-Organizing Secretary of Campus Recruitment drive in S N College for Women college and Technopark on 22nd and 23rd June, 2012 at SNCW, Kollam
- Nodal Officer of MHRD- Conducted AISHE survey in S N College for Women, Kollam.
- Nodal officer of IT Mission computer course (2010-2015,2017-2020)

- Co convener of Innovative course in S N College, Kollam (2015-17)
- Coordinator NIRF in SNCW

RESEARCH OUTPUT

- Research guide in University of Kerala
- No. of Projects undertaken by Dr. S Usha
- Completed UGC Minor Project entitled “Evaluation of Well water quality in relation to health status in Kollam corporation, Kerala” vide UGC No: MRP(S) 614/09-10/KLKEO 16 dated 27/01/2010.
- Completed a project sanctioned from Dist. Medical Office, Kollam entitled “Study of Water Quality and Sanitation in Kollam District” in 2013.
- Doing a UGC Minor Project entitled “Bioaccumulation of Heavy metals in an economically important fish *Etroplus suratensis* of Ashtamudi lake and its impacts on health status of people of Kollam corporation, Kerala.” vide UGC No: MRP(S) 0260/12-13/KLKEO16 dated 23/09/2013.