

Dr. Pearl Augustine

Department of Chemistry
St. Michael's College
Cherthala, Alappuzha - 688539
Email: pearl.augustine@gmail.com

Kilivallical (H)
Maruthorvattom P.O.
Cherthala, Alappuzha - 688539
Mob: +91 - 9495161734

EDUCATION

- | | | |
|---------------|---|------|
| Ph. D. | Chemistry | 2009 |
| | Cochin University of Science and Technology (CUSAT)
Kochi, Kerala | |
| | <i>Thesis:</i> Development of Electrochemical Sensors for the
Determination of Certain Pharmaceuticals | |
| | <i>Supervisor:</i> Prof. K. Girish Kumar | |
| M. Sc. | Applied Chemistry | 2003 |
| | University of Calicut, Kerala | |
| B. Sc. | Chemistry | 2001 |
| | University of Calicut, Kerala | |

TEACHING EXPERIENCE

- | | | |
|----------------------------|--|--------------------|
| Assistant Professor | Department of Chemistry
St. Michael's College
Cherthala, Alappuzha | Nov. 2010 till now |
|----------------------------|--|--------------------|

RESEARCH EXPERIENCE

- | | | |
|------------------------------|---------------------------------------|-----------------------|
| DRDO Research Fellow | Department of Chemistry, CUSAT, Kochi | Jul. 2006 – Jan. 2008 |
| CUSAT Research Fellow | Department of Chemistry, CUSAT, Kochi | Jul. 2004 – Jun. 2006 |

RESEARCH INTERESTS

- Voltammetric sensors for drugs
- Sensors for food safety and environment monitoring
- Potentiometric sensors
- Chemical modification of electrodes

RESEARCH / CONFERENCE GRANTS RECEIVED

Title	Name of funding Agency	Sanctioning Year	Remarks
Synthesis and Photophysical Properties of Fluorescent Chitosan	UGC Minor Research Project Amount : Rs. 90,000.00	2012	Completed
National Seminar on Recent Advances in Photochemistry (NSPC 2019)	KSCSTE Amount : Rs. 50,000.00	2018	Completed
Study of the Electrochemical Properties of Analytes using Voltammetric Sensors	KSCSTE Student Project Amount : Rs. 10,000.00	2019	Completed

PROFESSIONAL DEVELOPMENT

Programme	Subject	Period	Organizer/Place
Orientation Course	IT Oriented	22-04-2015 to 19-05-2015	UGC, HRDC, University of Kerala, Thiruvananthapuram
Refresher Course	Environmental Sciences (Multidisciplinary)	02-02-2017 to 22-02-2017	UGC, HRDC, University of Kerala, Thiruvananthapuram
Refresher Course	Environmental Sciences (Multidisciplinary)	11-01-2029 to 24-01-2020	UGC, HRDC, University of Kerala, Thiruvananthapuram
Short-term Course	Online Education in Higher Education Institutes	13-07-2020 to 17-07-2020	Kerala State Higher Education Council

PROFESSIONAL MEMBERSHIP

Life Member (Membership No.: LM238) - Indian Society for ElectroAnalytical Chemistry (ISEAC)

**Member,
Board of Examinations**

University of Calicut, Kerala.
St. Theresa's College (Autonomous), Ernakulam.
Maharaja's College (Autonomous), Ernakulam.

SEMINAR / WORKSHOPS ATTENDED

1. Seminar on “Analytical Techniques for Environmental Monitoring and Measurements”, School of Environmental Studies, Cochin University of Science and Technology, Kochi, June 2019.
2. International Conference on Materials for the Millennium, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, March 2019.
3. National Seminar on “Advancements in Polymer Science and Technology”, Department of Chemistry, St. Teresa’s College, Ernakulam, Jan 2017.
4. National Seminar on Recent Advances in Materials Science, Government College, Kottayam, Jan. 2017.
5. National Seminar on Recent Advances in Photochemistry, Dept. of Chemistry, St. Michael’s College, Cherthala, Dec. 2015.
6. Annual Nodal Centre Conference of VALUE Virtual Labs (supported by MHRD), Amrita Vishwa Vidyapeetham, Kollam, August 2015.
7. International Research Conference on Advanced Techniques in Chemistry, Department of Chemistry, St. Albert’s College, Ernakulam, Jan. 2014.
8. National Seminar on Recent Advances in Photochemistry, Dept. of Chemistry, St. Michael’s College, Cherthala, Dec. 2013.
9. National Seminar on Frontiers in NMR Spectroscopy, Department of Chemistry, St. Michael’s College, Cherthala, July 2011.
10. National Seminar on Current Trends in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, 2011.
11. National Seminar on Current Trends in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, 2008.
12. International Conference on Materials for the Millennium, Cochin University of Science and Technology, ICM -2007, organized by Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, 2007.
13. National Seminar on Sensors and its Applications, National Institute of Technology, Trichy, Tamil Nadu, India, 2007.
14. National Seminar on Frontiers in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, 2006.
15. National seminar on Emerging Trends and New Vistas in Chemistry, Dept. of Applied Chemistry, University of Calicut, 2005.

PUBLICATIONS

1. M. Gayathri Mohan, Aravind Krishnan, Beena James, **Pearl Augustine**, P. Manoj, *Theoretical studies of squaraine and functionalized 2,1,3-benzothiadiazole molecules for solar cell applications*, **Materials Today: Proceedings**, 33 (2), 1268-1273, 2020.
2. Seena Elizabeth George, Vibin Ipe Thomas, Beena James, **Pearl Augustine**, C. Rajalakshmi, P. Manoj, *Modelling and synthesis of solution processable dibenzothiophene derivative for organic electronics*, **Materials Today: Proceedings**, 33 (2), 1288-1292, 2020.

3. **Pearl Augustine**, K. Girish Kumar “*Polymeric Membrane Potentiometric Sensors for the Determination of Lamivudine*”, ***Dominican Discern*** - A Refereed Journal for Interdisciplinary Studies (ISSN 2454-5708), 2(4), 6-10, 2017.
4. Annie Merlin, **Pearl Augustine**, “*A Novel Schiff Base Derivative of Chitosan with Vanillin*” ***Michaels Journal of Academic Research (MJAR)*** an Interdisciplinary Journal of St. Michael's College, Cherthala, 1, 51-52, 2017.
5. K. Girish Kumar, **Pearl Augustine** and Sareena John, “*Novel potentiometric sensors for the selective determination of domperidone*”, ***Journal of Applied Electrochemistry***, 40(1), 65-71, 2010.
6. K. Girish Kumar, **Pearl Augustine**, Sareena John, Jerzi Radecki and Hanna Radecka, “*Fabrication of potentiometric sensors for the selective determination of Ketoconazole*”, ***Analytical Letters***, 41(7), 1144-1157, 2008.
7. K. Girish Kumar, **Pearl Augustine**, Sareena John, “*A novel potentiometric sensor for the determination of nimesulide*”. ***Portugaliae Electrochimica Acta*** 25(3), 375-381, 2007.
8. K. Girish Kumar, Sareena John, **Pearl Augustine**, Remalakshmy Poduval and Beena S., “*A novel mebendazole selective membrane sensor and its application to pharmaceutical analysis*”, ***Analytical Sciences***, 23(3), 291-294, 2007.
9. K. Girish Kumar, Remalakshmy Poduval, **Pearl Augustine**, Sareena John and Beena S., “*A PVC plasticized sensor for Ni (II) ion based on a simple ionophore*”, ***Analytical Sciences***, 22(10), 1333-1337, 2006.
10. K. Girish Kumar, Remalakshmy Poduval, Sareena John and **Pearl Augustine**, “*A PVC plasticized membrane sensor for nickel ions*”, ***Microchimica Acta***, 156, 283-287, 2006.
11. K. Girish Kumar, **Pearl Augustine**, Remalakshmy Poduval and Sareena John, “*Voltammetric studies of sparfloxacin and application to its determination in pharmaceuticals*”, ***Pharmazie***, 61(4), 291-292, 2006.
12. K. Girish Kumar, Sareena John, Remalakshmy Poduval and **Pearl Augustine**, “*Electrochemical determination of terazosin in pure form and in dosage forms*”, ***The Chinese Pharmaceutical Journal***, 57, 29-36, 2005.