

Dr. Pearl Augustine

Department of Chemistry
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EDUCATION

Ph. D. Chemistry 2009

Cochin University of Science and Technology (CUSAT)
Kochi, Kerala

Thesis: Development of Electrochemical Sensors for the
Determination of Certain Pharmaceuticals

Supervisor: Prof. K. Girish Kumar

M. Sc. Applied Chemistry 2003

University of Calicut, Kerala

B. Sc. Chemistry 2001

University of Calicut, Kerala

TEACHING EXPERIENCE

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

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| DRDO Research Fellow | Department of Chemistry, CUSAT, Kochi | Jul. 2006 – Jan. 2008 |
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| CUSAT Research Fellow | Department of Chemistry, CUSAT, Kochi | Jul. 2004 – Jun. 2006 |
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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 |
|--|--|-------------------------|----------------|
| National Seminar on NMR Spectroscopy (January 2024) | KSCSTE Amount : Rs. 30,000.00 | 2024 | Completed |
| Study of the Electrochemical Properties of Analytes using Voltammetric Sensors | KSCSTE Student Project Amount : Rs. 10,000.00 | 2019 | Completed |
| National Seminar on Recent Advances in Photochemistry (NSPC 2019) | KSCSTE Amount : Rs. 50,000.00 | 2018 | Completed |
| Synthesis and Photophysical Properties of Fluorescent Chitosan | UGC Minor Research Project Amount : Rs. 90,000.00 | 2012 | Completed |

PROFESSIONAL DEVELOPMENT

| Programme | Subject | Period | Organizer/Place |
|--|---|-----------------------------------|--|
| Online Short-Term Programme | Disaster Management | 25.07.2022 to 30.07.2022 | UGC, HRDC, University of Hyderabad |
| Online Short-term Course | Moodle Learning Management System | 23.11.2020 to 27.11.2020 | St. Michael's College, Cherthala and Spoken Tutorial Project, IIT Bombay |
| Short-term Course | Online Education in Higher Education Institutes | 13.07.2020 to 17.07.2020 | Kerala State Higher Education Council |
| Faculty Development Programme – (Online) | GChem Paint and Libre Office Suite Writer | 04.05.2020 to 10.05.2020 | Spoken Tutorial Project, IIT Bombay |
| Online Refresher | Chemistry | 16 weeks, Completed on 16.02.2020 | UGC – AICTE- MHRD, on SWAYAM |
| Refresher Course | Environmental Sciences (Multidisciplinary) | 11.01.2020 to 24.01.2020 | UGC, HRDC, University of Kerala, Thiruvananthapuram |
| Online Short-term Course | Metals in Biology | July – September 2019 (8 weeks) | NPTEL - AICTE |

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| Refresher Course | Environmental Sciences (Multidisciplinary) | 02.02.2017 to 22.02.2017 | UGC, HRDC, University of Kerala, Thiruvananthapuram |
| Orientation Course | IT Oriented | 22.04.2015 to 19.05.2015 | UGC, HRDC, University of Kerala, Thiruvananthapuram |

PROFESSIONAL MEMBERSHIP

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

ADMINISTRATIVE RESPONSIBILITIES

- Co-ordinator, National Seminar on NMR Spectroscopy, Jan 2024
- Co-ordinator, Two Day Workshop on Facets of Research Methodology (2022)
- Coordinator, CLMC – CBCSS (2022 Onwards)
- Coordinator, National Science Day Celebration (NSD – 2022)
- Secretary, Staff Co-operative Bank (2022 onwards)
- Convenor, Feed back Committee (2021 Onwards)
- Convenor, Equal Opportunity Center (2021, 2020)
- Coordinator, Minority Cell (2021, 2020)
- Co-ordinator, International Conference on Photochemistry and Sustainable Energy (ICPSE - 2019)
- Co-ordinator, National Seminar on Recent Advances in Photochemistry (NSPC – 2019)
- Member, Academic Monitoring Committee
- Member, IQAC
- Member, Research Promotion Council
- Member, Anti-drug Committee
- Member, Board of Examinations, University of Calicut, Kerala
- Member, Board of Examinations, St. Theresa's College (Autonomous), Ernakulam.
- Member, Board of Examinations, Maharaja's College (Autonomous), Ernakulam.

SEMINAR / WORKSHOPS ATTENDED

1. National Seminar on NMR Spectroscopy Department of Chemistry, St. Michael's College, Cherthala, Jan.2024.
2. National Seminar on Recent Advances in Photochemistry (NSPC 2023), Department of Chemistry, St. Michael's College, Cherthala, Feb. 2023.
3. International Conference on Materials for the Millenium (MATCON -2023), Department of Applied Chemistry, Cochin University of Science and Technology, January 12- 14, 2023.
4. National Seminar on Recent Advances in Photochemistry (NSPC – 2019), Dept. of Chemistry, St. Michael's College, Cherthala, Feb. 2019.
5. Seminar on "Analytical Techniques for Environmental Monitoring and Measurements", School of Environmental Studies, Cochin University of Science and Technology, Kochi, June 2019.

6. International Conference on Materials for the Millennium, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, March 2019.
7. International Conference on Membranes (ICM 2017), Department of Chemistry, St. Michaels College, Cherthala, 30 Sept – Oct3, 2017.
8. National Seminar on “Advancements in Polymer Science and Technology”, Department of Chemistry, St. Teresa’s College, Ernakulam, Jan 2017.
9. National Seminar on Recent Advances in Materials Science, Government College, Kottayam, Jan. 2017.
10. National Seminar on Recent Advances in Photochemistry, Dept. of Chemistry, St. Michael’s College, Cherthala, Dec. 2015.
11. Annual Nodal Centre Conference of VALUE Virtual Labs (supported by MHRD), Amrita Vishwa Vidyapeetham, Kollam, August 2015.
12. International Research Conference on Advanced Techniques in Chemistry, Department of Chemistry, St. Albert’s College, Ernakulam, Jan. 2014.
13. National Seminar on Recent Advances in Photochemistry, Dept. of Chemistry, St. Michael’s College, Cherthala, Dec. 2013.
14. National Seminar on Frontiers in NMR Spectroscopy, Department of Chemistry, St. Michael’s College, Cherthala, July 2011.
15. National Seminar on Current Trends in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, 2011.
16. National Seminar on Current Trends in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, Kochi, 2008.
17. 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.
18. National Seminar on Sensors and its Applications, National Institute of Technology, Trichy, Tamil Nadu, India, 2007.
19. National Seminar on Frontiers in Chemistry, Dept. of Applied Chemistry, Cochin University of Science and Technology, 2006.
20. 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.