CURRICULUM VITAE

Dr. REMYA NEELANCHERRY

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RESEARCH INTEREST

- Advanced oxidation process for water and wastewater treatment
- Microwave for solid waste management
- Development of novel catalyst and its characterization of catalyst for bio-refractory pollutant removal
- Agricultural and Industrial wastewater treatment.

WORK EXPERIENCE

- April 2016 Till date Assistant Professor, School of Infrastructure, Indian Institute of Technology Bhubaneswar, Odisha, India
- July 2011 Dec 2015 Adhoc Lecturer, Civil Engineering Department, National Institute of Technology Calicut (NIT Calicut), India
- August 2007 December 2010 Research Associate and research scholar, National Chiao Tung University, Hsinchu, Taiwan.
- July 2006 June 2007 Consultant, i2 Technologies, Bangalore
- August 2004 July 2005 Teaching Assistant, IIT Madras, Chennai
- May 2005 July 2005 Industrial Project work in Shah Technical Consultants, Chennai

TEACHING EXPERIENCE

◆ July 2011 – May 2014 – Adhoc Lecturer, Civil Engineering Department, NIT Calicut.

• Course Handled

- Bioremediation Technology
- Environmental Pollution Control Engineering
- Environmental Engineering I (Water supply engineering)
- Environmental Engineering (Water and Wastewater Engineering)
- Environmental studies
- Environmental Studies in Civil Engineering
- Environmental Engineering Laboratory
- Civil Engineering Workshop
- Surveying

◆ August 2007 – December 2010 - Research Associate, NCTU Taiwan.

- Course Assisted
 - Sludge Treatment and Disposal

EDUCATIONAL QUALIFICATIONS

PhD	Environmental Engg. (2010)
	National Chiao Tung University, Taiwan
M Tech	Civil (Environmental) Engg. (2006)
	Indian Institute of Technology Madras, Chennai
B Tech	Agricultural Engg. (2004)
	K C A E T, Tavanur, Kerala Agricultural University
Plus two (CBSE)	1999, Jawahar Navodaya Vidyalaya, Kannur
X (CBSE)	1997, Jawahar Navodaya Vidyalaya, Kannur

AWARDS AND HONORS

- Editorial Board Member, International Journal of Green Technology
- Top Cited Papers Award for 2011 and 2012 from Chemical Engineering Journal
- Golden Bamboo Scholarship to pursue doctoral program in Environmental Engineering, National Chiao Tung University with full tuition waiver (2007 2010).
- CIGR award for the best E-journal, CIGR International conference, 30th August 3rd September 2008, Iguassu Falls City, Brazil.
- Gold medal and Valli Anantharamakrishnan Merit Prize for the best performance in Civil Engineering Department, IIT Madras, Chennai (Batch 2004 06).
- **DAAD (German Academic Exchange Program) fellowship** to carry out M Tech project in RWTH- Aachen, Germany (2005-06).
- MHRD (Govt of India) Scholarship (2004 06).
- Cleared Graduate Aptitude Test in Engineering (GATE) 2004, All India Rank 65.
- Kerala Agricultural University Topper in B.Tech, Agricultural Engineering (2004)
- Biography included for publication in the 30th Edition (2013) of Marquis Who's Who in the World (VIP No: 36539139).
- Nominee for the membership in American Chemical Society
- **Reviewer** for the following Journals:
 - Chemosphere
 - Journal of Hazardous Materials
 - Chemical Engineering Journal
 - Desalination and Water Treatment
 - Journal of Environmental Chemical Engineering

MEMBERSHIP IN PROFESSIONAL BODIES

• Senior Member: Asia- Pacific Chemical, Biological & Environmental Engineering Society (APCBEES).

BOOK CHAPTER PUBLISHED

• Neelancherry Remya, Jih-Gaw Lin (2013) "Exploration of carbofuran removal mechanism in a microwave-zerovalent iron (MW-ZVI) system", Chapter 2, Solutions to Environmental Challenges through Innovations in Research, Asiatech Publishers Inc., New Delhi.

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS

- Neelancherry Remya, Jih-Gaw Lin (2015) "Microwave-Granular Activated Carbon (MW-GAC) system for carbofuran degradation Analysis of characteristics and recyclability of the spent GAC", Desalination and water treatment 53, 1621-1631.
- M A Vishnuganth, S Rangabhashiyam, **Neelancherry Remya**, Mathava Kumar, N. Selvaraju (2015) Optimization of GAC supported TiO₂ photocatalytic process for competent carbofuran removal from an aqueous system, Journal of scientific and industrial research, 74, 225-231.
- Raju C Asha, M. A. Vishnuganth, **Neelancherry Remya**, N. Selvaraju, Mathava kumar, (2015) "Livestock wastewater treatment in batch and continuous photocatalytic systems: performance and economic analyses", Water, air and soil pollution 5, 226
- Akhinesh K, Jithu G Francis, Junaid K T, Jishnulal K, Jeril Netto Joseph, **Remya Neelancherry** (2015) "Study of the compressive strength of concrete with various proportions of steel mill scale as fine aggregate", IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), e-ISSN : 2278-1684, p-ISSN : 2320–334X, 104-109
- **Neelancherry Remya**, Jih-Gaw Lin (2011) "Microwave-assisted carbofuran degradation in the presence of GAC, ZVI, H₂O₂: Influence of reaction temperature and pH", Separation and purification Technology 76, 244-252.
- Neelancherry Remya, Jih-Gaw Lin (2011) "Current Status of Microwave Application in Wastewater Treatment A Review", Chemical Engineering journal 166, 797–813.
- Neelancherry Remya, Jih-Gaw Lin (2011) "Carbofuran removal by the application of MW-assisted H₂O₂ process", Journal of Environmental Science and Health Part-B 46, 350 - 359.
- **Remya, N**, Mathava Kumar, Mohan, S, Rafig Azzam (2011) "Influence of Organic Matter and Solute Concentration in Nitrate Sorption", Bioresource Technology 102, 5283-5289.
- Remesan Renji, M. Syamaladevi Roopesh, **Neelancherry Remya**, P.S Preman (2007). "Wet Land Paddy Weeding- A Comprehensive Comparative Study from South India". Agricultural Engineering International: the CIGR E-journal. Vol. IX., Manuscript PM 07 011.
- Remesan Renji, M. Syamaladevi Roopesh, **Neelancherry Remya**, P.S Preman (2007). "Performance Analysis of wetland paddy weeders". India Agricultural Science Abstracts.

• Neelancherry Remya, Jih-Gaw Lin (2014) "Application of Central Composite Design and Response Surface Methodology for Carbofuran Degradation in Microwave-Granular activated carbon System", Journal of Hazardous materials (Communicated)

PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES

- N Remya, S Mathava Kumar, S Mohan, R Azzam "Influences of organic matter and solute concentration in the nitrate sorption potential of three German soils: comparison of batch and diffusion-cell experiments" Challenges in Environmental Science and Engineering, CESE-2010, 26 September -1 October 2010 at the SEBEL, Cairns, Australia.
- Neelancherry Remya, Jih-Gaw Lin. "Carbofuran Degradation in the Microwave-Granular Activated Carbon (MW-GAC) system" IWA International conference 15-19 September 2011, Xi'an, China.
- Neelancherry Remya, Jih-Gaw Lin. "Analysis of microwave-zerovalent iron system for aqueous phase carbofuran removal" International Conference on Challenges in Environmental Science and Engineering, CESE-2011, 25 30 September 2011 at Tainan City, Taiwan.
- Neelancherry Remya, Mathava Kumar S, Jih-Gaw Lin. "Performance evaluation of microwave assisted system for degradation of carbofuran" International Symposium on Integrated Water Resources Management (IWRM-2014), CWRDM, Calicut India, 19 21 February 2014.
- Asha C Raju, B Sarat Chandra, Adarsh Shukla, Varun Kumar Reja, Krishna Anish Adusumilli, **Remya Neelancherry**, Mathava Kumar "Photocatalytic Treatment of Poultry Wastewater by hectorite- TiO2 aqueous suspensions" International Conference on Chemical and Environmental Research (ICCER-2014), JMC College Trichy, Tamilnadu India, 11-12 March, 2014.
- B Sarat Chandra, **Remya Neelancherry**, Mathava Kumar "Treatment of highly organic waste water by supported and immobilized TiO₂" International conference on waste management for sustainable development (ICWMSD-2014), NSS Palakkad, Kerala.
- Ankit Singh, **Remya Neelancherry** "Solid Waste Management A case study of ultimate analysis and landfill design for NIT Calicut" International Conference on Materials Mechanics and Management (IMMM 2014), CET Trivandrum, India.

PAPERS PUBLISHED IN NATIONAL CONFERENCES

• Akhinesh K, Jithu G Francis, Junaid K T, Jishnulal K, Jeril Netto Joseph, **Remya Neelancherry** "Study of the Compressive Strength of Concrete with various proportions of Steel Mill Scale as Fine Aggregate" National Conference on Innovation in Engineering Science and Technology (NCIEST-2015), Pune, Maharashtra, India.

M TECH PROJECT GUIDED

- Effect of sugarcane bagasse biochar amendment on geotechnical properties of landfill cover soil and landfill gas emission (2015)
- Breakthrough and stability based analysis of a composite material for landfill liner (2015)

B TECH PROJECT GUIDED

- Treatment of poultry wastewater in a cyclic photo reactor (2012)
- Photocatalytic treatment of municipal landfill leachate (2014)
- Assessment of antibiotics leaching behavior in selected Indian soils (2015)

INVITED TALKS/SPECIAL LECTURES DELIVERED

- Microwaves for complex wastewater treatment, Civil Engineering Department, IIT Delhi.
- Application of surface analysis techniques in water treatment, Centre for Environmental Science and Engineering (CESE), IIT Bombay.
- Microwave application for solid waste management, Government Engineering College, Calicut, Kerala.
- Microwave An effective method for energy production and energy minimization, K.S.R. College of Engineering, Tiruchengode, Tamilnadu.
- Theory and Concept of Microwaves for Water and Wastewater Treatment, National Institute of Technology Calicut.
- Application of Microwave for Carbofuran Bearing Wastewater Treatment, National Institute of Technology Calicut.
- Design of Experiments by Central Composite Design in Environmental Systems, National Institute of Technology Calicut.
- New trends in Advanced Oxidation Processes, College of Engineering Trivandrum, Kerala.
- Design of Physico-chemical pretreatments for recalcitrant removal in biosystems, Government College of Technology, Coimbatore.
- Water quality testing by sampling and analysis, National Institute of Technology Calicut.
- High Performance Liquid chromatography (HPLC) in Environmental Forensics, National Institute of Technology Calicut
- Introduction to Instrumental Methods in Environmental Engineering, National Institute of Technology Calicut
- Chromatographic methods High Performance Liquid chromatography (HPLC), National Institute of Technology Calicut

PROFESSIONAL COURSES ORGANIZED

- National Workshop on Water, Air and Soil: Sampling and Analysis under TEQIP II at National Institute of Technology Calicut, 11th -12th March, 2014.
- Training Programme on Instruments for Environmental Quality Assessment under TEQIP II at National Institute of Technology Calicut, 19th -21st November, 2015.

PROFESSIONAL TRAINING ATTENDED

- Land Use Based Estimation of Solid Waste Generation, National Institute of Technology Calicut, 12th September, 2015.
- National seminar on thermal and other techniques for waste management under TEQIP II at National Institute of Technology Calicut, 7th 9th March, 2014.
- Workshop on Spectroscopy: Instrumentations and Applications conducted by department of physics, National Institute of Technology Calicut, 11th January, 2014.
- Workshop on Pedagogical aspects in Engineering Education under TEQIP II at National Institute of Technology Calicut, 2nd – 5th January, 2014.
- Training Programme on 3D Ground water flow and contaminant transport modeling conducted by department of Civil Engineering, National Institute of Technology Calicut, 8th 10th May, 2014.
- Faculty Development Programme on Modelling techniques in environmental and hydrological systems conducted by department of Civil Engineering, National Institute of Technology Calicut, 8th – 14th December, 2013.
- Faculty Development Programme on Biomechanics for Engineers conducted by department of Civil Engineering, National Institute of Technology Calicut, 15th – 21st December, 2013.
- Training Programme on Ground water flow and contaminant transport modeling conducted by department of Civil Engineering, National Institute of Technology Calicut, 27th – 28th December, 2013.
- Workshop on Intellectual Property Right Awareness conducted by Technology Business Incubator (TBI) of NIT Calicut, 5th October 2013.
- Two days Training Programme by Agency for Non-conventional Energy and Rural Technology (ANERT) – Energy Conservation and Use of Renewable Energy in Agricultural and Domestic Sectors, K.C.A.E.T, Tavanur, 11th – 12th May, 2002.
- Ten day NSS Camp organized by K.C.A.E .T, Tavanur, Theodolite surveying and watershed delineation at Attapady Hills Area Development Society, Palakkad, 10th 19th August, 2002.