

Cellphone : 9443011576

e-Mail ID : cnpratheebea@gmail.com

Address : Plot No 90, Door No 4, TANSI NAGAR 11th Street,
VELACHERY



Present Position

Assistant Professor, Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai from December-2014.

Present Additional Responsibility

- > Student Counsellor, Alagappa College of Technology, Anna University, Chennai from August-2016.
- > Student Counsellor, Centre for International Affairs, Anna University, Chennai from August-2015.

Previous Positions

- > Assistant Professor, Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai from December-2014.

Previous Additional Responsibility

- > , , Anna University, Chennai.
- > , , Anna University, Chennai.

Other Employment

- > LECTURER, MOHAMED SATHAK ENGINEERING COLLEGE for 3 years.
- > SENIOR LECTURER, KALASALINGAM UNIVERSITY for 5 years.
- > HALF TIME RESEARCH ASSISTANT, INDIAN INSTITUTE OF TECHNOLOGY MADRAS for 3 years.

Degree

- ❖ M.Tech. in CHEMICAL ENGINEERING , INDIAN INSTITUTE OF TECHNOLOGY KANPUR, INDIAN INSTITUTE OF TECHNOLOGY KANPUR (2000 - 2002).

- ❖ B.Tech. in CHEMICAL ENGINEERING , VELLORE ENGINEERING COLLEGE, UNIVERSITY OF MADRAS (1996 - 2000).

Research Degree

- ❖ Ph.D. in MODELING & SIMULATION, REACTION ENGINEERING from Faculty of CHEMICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY MADRAS, INDIAN INSTITUTE OF TECHNOLOGY MADRAS (2010 - 2017).
Title: SYSTEM WIDE MODEL FOR EMISSIONS CONTROL IN DIESEL ENGINES.

Area of Specialisation

- > PROCESS MODELING & SIMULATION
- > CHEMICAL & CATALYTIC REACTION ENGINEERING
- > COMBUSTION

Membership in Professional Organization

- > ISTE
- > BRSI

Research Guidance

Number of M.E./ M.Tech. Projects : 7
Guided
Number of M.E./ M.Tech. Projects : 5
Guiding

Papers Published in Journals

Research Papers Published in International Journals : 5
Research Papers Published in National Journals : 1

1. Anbuselvan Vimalarasan, Nagarajan Pratheeba, Balasubramaniam Ashokkumar, Natesan Sivakumar, Perumal Varalakshmi, "Production of biodiesel from cyanobacteria (*Oscillatoria annae*) by alkali and enzyme mediated transesterification", JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH, published by CSIR. Vol. 70, pp. 959 (2011).
2. Perumal Varalakshmi, Rajendran Arunkumar, Loganathan Chanthramohan, Murugan Nagarajan, Thangavelu Vinoth Babu, Nagarajan Pratheeba, "Study of anti-inflammatory, anti-diabetic, and analgesic activity of *Oscillatoria annae* extract in rats and mice", AFRICAN JOURNAL OF BIOTECHNOLOGY, published by ACADEMIC JOURNALS. Vol. 11, Issue 31, (2011).

3. CN PRATHEEBA, PREETI AGHALAYAM, SUDHEER KUMAR BOPANA, KANNAN MOUDGALYA, "LOW DIMENSIONAL MODELING OF COMBUSTION IN SI ENGINES", SAE, published by SAE. Issue 2013, (2013).
4. CN PRATHEEBA, PREETI AGHALAYAM, "Effect of Exhaust Gas Recirculation in NO_x Control for Compression Ignition and Homogeneous Charge Compression Ignition Engines", ENERGY PROCEDIA, published by ELSEVIER. Vol. 66, pp. 25 (2015).
5. NIVEDA LAKSHMANAN, CN PRATHEEBA, PREETI AGHALAYAM, "Transient Modeling of NO_x Reduction in Automobile Exhausts", ENERGY PROCEDIA, published by ELSEVIER. Vol. 66, pp. 101 (2015).
6. Kalimuthu Jawaharraj, Rathinasamy Karpagam, Balasubramaniam Ashokkumar, Chanda Nagarajan Pratheeba, Perumal Varalakshmi, "Enhancement of biodiesel potential in cyanobacteria: using agro-industrial wastes for fuel production, properties and acetyl CoA carboxylase D (accD) gene expression of Synechocystis sp.NN", Renewable Energy, published by ELSEVIER. Vol. 98, pp. 72-77 (2016).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 6
Research Papers Presented in National Programmes : 1

1. C N PRATHEEBA AND PREETI AGHALAYAM SUDHEER KUMAR BOPANNA KANNAN MOUDGALYA, "LOW DIMENSIONAL MODELING OF COMBUSTION IN SI ENGINES" presented in a National level conference on SYMPOSIUM ON INTERNATIONAL AUTOMOBILE TECHNOLOGY, organised by AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA, INDIA from 03-Jan-2013 to 09-Jan-2013.
2. C N PRATHEEBA PREETI AGHALAYAM NIKET S KAISARE, ""Modeling of reactors in three way catalytic convertors using reduced order models"" presented in a International level conference on INTERNATIONAL CONFERENCE OF MATHEMATICS AND CHEMICAL KINETICS, organised by IIT MADRAS, INDIA from 04-Feb-2013 to 06-Feb-2013.
3. RAVIKIRAN MANDAPAKA, C N PRATHEEBA, A. SANTHOSHAM, PREETI AGHALAYAM, "Reaction Mechanism Reduction and Monolith Reactor Modeling of Automotive Exhaust" presented in a International level conference on INTERNATIONAL CONFERENCE ON CHEMICAL KINETICS, organised by UNIVERSITY OF SEVILLE SPAIN, SPAIN from 08-Jul-2013 to 12-Oct-2013.
4. C N PRATHEEBA AND PREETI AGHALAYAM, "System-wide modeling of HCCI engine with aftertreatment" presented in a International level conference on AICHE ANNUAL CONFERENCE, organised by AICHE USA, USA from 02-Nov-2013 to 08-Nov-2013.
5. C N PRATHEEBA AND PREETI AGHALAYAM, "Effect of Exhaust Gas Recirculation in NO_x Control for Compression Ignition and Homogeneous Charge Compression Ignition Engines" presented in a International level conference on 12TH International Conference on Combustion and Energy Utilization , organised by LANCASTER UNIVERSITY, UNITED KINGDOM from 29-Sep-2014 to 03-Oct-2014.

6. NIVEDA LAKSHMANAN CN PRATHEEBA PREETI AGHALAYAM, "Transient Modeling of NOx Reduction in Automobile Exhaust" presented in a International level conference on 12TH International Conference on Combustion and Energy Utilization , organised by LANCASTER UNIVERSITY, UNITED KINGDOM from 29-Sep-2014 to 03-Oct-2014.
7. Gokul V and C N Pratheeba, "Mapping the Stable Region of Operation of Homogenously Charged Compression Ignition (HCCI) Engine for Methane and DMF Fuel Blend" presented in a International level conference on 2017 AIChE Annual Meeting, organised by AIChE, USA from 29-Oct-2017 to 03-Nov-2017.

Current Sponsored Projects

1. "STUDIES ON SYNTHESIS AND CHARACTERIZATION OF NON-NOBLE METAL CATALYSTS FOR NOX REDUCTION" (September-2015 - September-2016). Project Cost: 50000.00.

Programme Organized

1. Organizer, National level Short Course on "Faculty Development and Training Program on CH6605 Process Instrumentation Dynamics and Control" from 22-Nov-2017 to 29-Nov-2017.
2. Coordinator, National level seminar on "Clean Healthy Environment by Sustainable Technologies" from 27-Mar-2018 to 28-Mar-2018.

Programme Attended

1. Attended a International level Short Course on "COMBUSTION INSTITUTE SUMMER SCHOOL" organized by LUND UNIVERSITY, SWEDEN from 19-Aug-2013 to 24-Aug-2013.
2. Attended a National level Short Course on "FACULTY DEVELOPMENT TRAINING PROGRAM ON CHEMICAL ENGG THERMODYNAMICS - II" organized by A C TECH ANNA UNIVERSITY, INDIA from 14-May-2015 to 21-May-2015.
3. Attended a International level Short Course on "UGC sponsored Short Term Training Program on the state of the art analytical instruments" organized by A C Tech, India from 26-Oct-2015 to 30-Oct-2015.
4. Participated in a International level workshop on "Third international workshop on advanced functional nanomaterials" organized by Centre for Nanotechnology Anna University, India from 16-Dec-2015 to 18-Dec-2015.
5. Participated in a International level workshop on "IUSSTF SPONSORED WORKSHOP ON NANOPARTICLE SYNTHESIS, CHARACTERIZATION AND ASSEMBLIES" organized by NATIONAL CHEMICAL LABORATORIES PUNE, INDIA from 04-Jan-2016 to 06-Jan-2016.
6. Attended a National level Short Course on "FACULTY DEVELOPMENT TRAINING PROGRAM ON CHEMICAL PROCESS CALCULATIONS" organized by A C TECH ANNA UNIVERSITY, INDIA from 18-Jan-2016 to 25-Jan-2016.

7. Attended a International level Short Course on "11th Summer School Program "Petroleum Refining & Petrochemicals"" organized by PetroTech, India from 06-Jun-2016 to 10-Jun-2016.
8. Attended a National level Short Course on "FACULTY DEVELOPMENT TRAINING PROGRAM ON CHEMICAL PROCESS SAFETY" organized by A C TECH ANNA UNIVERSITY, INDIA from 20-Jun-2016 to 27-Jun-2016.
9. Attended a International level seminar on "Seminar on Recent Trends in Process Safety, Risk and Reliability" organized by IRESC GLOBAL, INDIA from 26-Aug-2016.
10. Attended a National level Short Course on "FDTP ON CH6702 TRANSPORT PHENOMENA" organized by Anna University, India from 12-Jun-2017 to 19-Jun-2017.
11. Attended a National level Short Course on "FOUNDATION PROGRAM IN ICT FOR EDUCATION" organized by IIT Bombay & NMEICT, India from 03-Aug-2017 to 07-Sep-2017.
12. Attended a National level Short Course on "PEDAGOGY FOR ONLINE AND BLENDED TEACHING LEARNING PROCESS" organized by IIT Bombay & NMEICT, India from 14-Sep-2017 to 12-Oct-2017.
13. Attended a National level Short Course on "TWO WEEK SHORT TERM COURSE ON ADVANCE PEDAGOGY AND PROFESSIONAL DEVELOPMENT" organized by NITTTR, Chennai, India from 18-Dec-2017 to 29-Dec-2017.
14. Attended a National level Short Course on "THREE WEEK REFRESHER COURSE ON KNOWLEDGE MANAGEMENT INTER AND MULTIDISCIPLINARY PERSPECTIVE" organized by University Library, Anna University, India from 01-Feb-2018 to 21-Feb-2018.

Honours

1. "EARLY FACULTY INDUCTION PROGRAMME" given by AICTE from INDIA (2000).
2. "BEST OUTGOING STUDENT" given by VELLORE INSTITUTE OF TECHNOLOGY from INDIA (2000).
3. "UNIVERSITY 7TH RANK" given by UNIVERSITY OF MADRAS from INDIA (2000).
4. "HALF TIME RESEARCH ASSISTANTSHIP" given by IIT MADRAS from INDIA (2010).
5. "TRAVEL GRANT" given by COMBUSTION INSTITUTE from SWEDEN (2013).

Experience Abroad

1. Visited COMBUSTION INSTITUTE LUND UNIVERSITY, SWEDEN from 19-Aug-2013 to 23-Aug-2013. Purpose of visit :COMBUSTION INSTITUTE PARTICIPANT.
2. Visited LANCASTER UNIVERSITY, UNITED KINGDOM from 29-Sep-2014 to 03-Oct-2014. Purpose of visit :CONFERENCE PAPER PRESENTATION.

Invited Lectures

1. Delivered a Lecture on "Emissions Control in HCCI Engines" in Sustainable Energy and Environmental Science, Engineering and Technology organized by SSN College of Engineering, Chennai (03-Mar-2017).
2. Delivered a Lecture on "Computational Techniques for Biotechnologists using MATLAB" in FDP on APPLICATIONS OF CHEMICAL ENGINEERING PRINCIPLES IN BIOTECHNOLOGY organized by Kalasalingam University, Krishnankoil (11-May-2017).
3. Delivered a Lecture on "Process Analysis and Simulation using MATLAB" in One day National Workshop on Modeling and Simulation of Bioprocess organized by Kalasalingam University, Krishnankoil (16-Sep-2017).