

CURRICULUM VITAE

Dr. V.SIVASUBRAMANIAN

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Tamil Nadu - 603 406
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Phone No. +91-44-27237418

Personal Data:

Father's Name	Velmurugan. K
Date of Birth	27-07-1972
Age	40 years
Sex	Male
Nationality	Indian
Marital Status	Married

Objective

To pursue a career that contributes valuable teaching and research in the area of Chemical/Environmental Engineering/Biotechnology and Management.

Professional Background

Doctorate of Philosophy (2001-2005)

Discipline : Chemical Engineering
Area of Specialization: Hydrodynamic / Environmental/
Biochemical Engineering
University : A.C. College of Tech., Anna University,
Chennai – 600 025
Research advisor : Prof. M. Velan
Ph.D thesis title : Hydrodynamics and Mass Transfer studies
In An Inverse Fluidized Bed Reactor

Master of Business Administration (1998-2002)

Discipline : Operations Management
University : IGNOU
CGPA : 4.03/5
Class : First class
Project title : A study on existing Maintenance Management
System of Explosives Production and Software
Development in Tamil Nadu Industrial Explosives
Limited (TEL).

Master of Technology (1993-1995)

Discipline : Petroleum Refining and Petrochemical
Engineering
University : A.C. College of Tech., Anna University
CGPA : 8.30/10
Class : First class with Distinction
Project title : Study on the Performance of Adsorbents in the
Purification of Mineral Oils.

Bachelor of Technology (1989 - 1993)

Discipline : Chemical Engineering
University : A.C. College of Tech., Anna University
Percentage : 72%
Class : First Class
Project title : Manufacture of Dapsone

Industrial, Research, and Teaching Experience

Organization : Tamil Nadu Industrial Explosives Ltd.
As Senior Plant Engineer: Five years (24.05.96 to 20.01.01)
Institution : A. C. College of Technology, Anna University
Department : Chemical Engineering
As Teaching Research Associate
: Four years (22.01.01 To 21.01.05)
As Lecturer : Two years (18.02.05 to 12.03.07)
Institution : National Institute of Technology Calicut
As Lecturer : From 15.03.07 to 14.11.07
As Assistant Prof. : From 15.11.07 to 14.11.10
As Associate Prof. : From 15.11.10 onwards
As Head : From 20.07.10 onwards
Total Experience: Seventeen Years
(till May 2012)

Awards

1. Recipient of the award and first prize for an oral presentation from Prof. M. M. Sharma in CHEMCON 2004, Mumbai, India.
2. Recipient of third prize for an oral presentation in Emerging Concepts in Biotechnology 2009, NITC.
3. Recipient of the National Merit Scholarship from the Government of India for outstanding proficiency in SSLC, Tamil Nadu, India.
4. Recipient of Merit Certificate from the Tamil Nadu Commerce Institutes Association, Chennai for first class obtained and the best candidate in performance in the competitive tests, India.
5. Recipient of Merit Certificate from the Maths Academy, Vellore - Distinction in English, India.

Honors

Editor

1. International Journal of Engineering, Science and Technology, Nigeria.
2. Medwell Journals.

Reviewer (42 papers)

1. African Journal of Biotechnology, Nairobi – 1 paper.
2. Asia-Pacific Journal of Chemical Engineering, Wiley Interscience, Australia – 3 papers.
3. Biotechnology and Bioprocess Engineering, Korea - 1 paper.
4. Bulletin of the Korean Chemical Society – 1 paper.
5. Chemical Engineering Science, Advanced Powder Technology, Elsevier – 1 paper.
6. Chemical and Biochemical Engineering – 1 paper.
7. Chemical Product and Process Modeling, Berkeley Electronic Press, USA – 1 paper.
8. Chiang Mai Journal of Science, Chiang Mai University, Thailand – 1 paper.
9. Clean – Soil, Air, Water, Wiley – 3 papers
10. Desalination Journal, Elsevier, USA – 1 paper.
11. Environmental Progress and Sustainable Energy, Wiley Interscience, Australia – 4 papers.
12. Indian Journal of Science and Technology – 3 papers.
13. Industrial Crops and Products, Elsevier – 1 Paper.
14. International J Biotechnol., Inderscience Publishers – 1 paper.
15. International J Chemical Reactor Engineering, Berkeley Electronic Press, USA – 2 papers.
16. International J Engineering, Science and Technology, Nigeria – 3 papers.
17. International J Green Energy, Taylor and Francis - 1 paper.
18. International J Thermophysics, Springer - 1 paper.
19. Journal of Agricultural Extension and Rural Development - 1 paper.
20. Journal of Chemical Engineering, Institution of Engineers (India) – 3 papers.
21. Journal of Electrical Engineering, Institution of Engineers (India) – 1 paper.
22. Journal of Engineering Science and Technology, Malaysia – 1 paper.
23. Journal of Materials and Environmental Science, Morocco – 1 paper.
24. Journal of Petroleum Technology and Alternative Fuels – 1 paper.
25. Journal of Solution Chemistry, Springer – 1 paper.
26. Particuology, Elsevier – 1 paper.
27. Process Biochemistry, Elsevier – 2 paper.

Book Review

1. Mechanical Operations, Anup Swain, Hemlata Patra, G K Roy, Tata McGraw Hill 2010.

Chairing of Sessions in International/National Conferences

1. International Conference CHEMCON 2010 organized by Indian Institute of Chemical Engineers, Annamalai University, Chidambaram, Tamil Nadu, December 2010 – chaired two sessions.
2. National Conference on Chemical Engineering Processes in Environmental Applications (CEPEA 2012), A.C.College of Technology, Anna University, Chennai, March 2012 – chaired one session.

Chief Guest

1. Chief Guest and delivered key note address in ISTE – STTP on “INDUSTRIAL EFFLUENT TREATMENT EMERGING TRENDS AND CHALLENGES AHEAD” at the Conference Hall, FEAT at 10.00 a.m on Monday, the 11th of June, 2012.

Examiner for PhD Thesis Evaluation

1. Intelligent Control in Process Industries – National Institute of Technology Trichy, Tamil Nadu.
2. Thermophysical Properties of Liquid Mixtures – A.C.College of Technology, Anna University, Chennai.
3. Removal of Heavy Metals from Aqueous Waste using Fresh Water Macro Algae - A.C.College of Technology, Anna University, Chennai.
4. Studies on Electroplating Rinse Wastewater Treatment – A.C.College of Technology, Anna University, Chennai.
5. Synthesis of Alternate Diesel Fuel from Virgin and Used Frying oils using Do-Deca Molybdophosphoric Acid Catalyst – Sathyabama University, Chennai.
6. Studies on In-situ Measurements and On-line Assessment of Microbial Biomass for Predicting the Treatment Efficiency in a Municipal Sewage Plant – Pondicherry Engineering College, Pondicherry.
7. Biodegradation of Phenanthrene by Mycoplasma sp. MVM2 – A.C.College of Technology, Anna University, Chennai.
8. A Study on the Impact of Customer Relationship Management on Customer Loyalty with Special Reference to Cellular Operators in Chennai City – Jawaharlal Nehru Technological University, Hyderabad.
9. Studies on Polyamide-imide incorporated Ultra and Nanofiltration Membranes - A.C.College of Technology, Anna University, Chennai.
10. Absorption and Fluorescence Spectral Characteristics of Selected Dye and Drug Molecules – Effect of Solvents, pH and β -Cyclodextrin – Annamalai University, Tamil Nadu.
11. Studies on Treatment of Textile Industry Wastewater through Reverse Osmosis Membrane – Anna University, Chennai.
12. Comparative Studies on the Adsorption Mechanism of Copper and Nickel Ions by Low Cost Activated Carbon – Bharathidasan University, Trichy, Tamil Nadu.
13. Experimental Investigation on Hydrodynamic, Suspension and Mixing Time Characteristics of Jet Mixer – Anna University, Chennai.

Examiner for PhD Comprehensive Viva Exam

External examiner – Dept. Chemical Engineering, NIT Trichy, November 2011.

Examiner for M.Tech Projects

External examiner – NITK Surathkal, July 2010.

External examiner – Dept of Mechanical Engineering, NIT Calicut, June 2011, May 2012.

Examiner for B.Tech Projects

External examiner, Comprehensive Exam – NIT Trichy, May 2009.

External examiner Projects – GEC Kozhikode, June 2010.

Abroad Visits

1. Hong Kong, China – May 2008
2. Kuala Lumpur, Malaysia – May 2011
3. Singapore – June 2011

Research Interests

1. Fluidization Engineering
2. Hydrodynamics
3. Mass Transfer
4. Biochemical Engineering
5. Environmental Engineering (Effluent Treatment) and
6. Energy Engineering
7. Nano-particles

Projects

1. Effluent Treatment using Inverse Fluidized Bed Reactor – Faculty Research Grant for Rs.5.00 lakhs
2. Regeneration of microbial biosorbents after heavy metal desorption – DRDO for Rs.7.5 lakhs
3. Concept notes on project proposal titled Development of a Conductivity Method to Study the Characteristics of Inverse Fluidized Bed Bioreactor with Non-Newtonian Systems for Application in Industrial Effluent treatment – accepted by DBT.

Research in Progress

1. Treatment of Effluent using Biomembrane Techniques – DST Fast Track (Ph.D Scholar) for Rs.16.95 lakhs
2. Modeling and Simulation of Fires in Chemical Process Industries
3. Effluent Treatment using Inverse Fluidized Bed Reactor
4. Study on degradation of dye stuff in water using Immobilized dead biomass and *A.niger*- ZnO nanoparticles
5. Optimization of Biodiesel production process using solid metal oxide catalysts

PG Projects Completed

1. Hydrodynamic studies of inverse fluidized bed reactor with non-Newtonian system
2. Heavy Metal Separation using Bioresources
3. Desorption of heavy metal from chitosan and adsorption kinetics of chromium by chitosan
4. Mass transfer studies in inverse fluidized bed reactors with Newtonian (organic additives) and non-Newtonian fluids.
5. Axial dispersion studies in inverse fluidized bed reactors with Newtonian (organic additives) and non-Newtonian fluids.
6. Biodegradation studies of phenolic compounds.
7. Studies on anaerobic digestion of solid waste from gelatin industry.
8. Effluent treatment in pharmaceutical industries.
9. Application of process capability study in spinning industry.

Project Guidance

PhD	7 on going
M.Tech	7 completed
MBA	1 completed
MSc (summer term)	4 completed
B.TechProjects	13 completed
B.Tech Mini Projects	10 completed

Other activities

1. Doctoral Committee Member in Department of Mechanical Engineering, Physics, Chemistry and Mathematics, NITC.
2. Doctoral Committee Member in Sathyabama University, Chennai.
3. Comprehensive Examination Committee Member in Department of Mechanical Engineering, School of Biotechnology and Department of Chemistry, NITC.
4. M.Tech project viva external member in Department of Mechanical Engineering, NITC.

Teaching

Subjects Handled

UG Level

1. Chemical Reaction Engineering I
2. Mechanical Operations
3. Mass Transfer I
4. Safety in Chemical Process Industries
5. Environmental Studies
6. Process Economics and Industrial Management
7. Petrochemicals
8. Energy management
9. Downstream Processing/Bioseparations (Biotechnology)

PG Level

1. Principles of Chemical Engineering
2. Operations Management
3. Wastewater Engineering
4. Environmental Engineering
5. Energy Management
6. Safety and Hazards Control
7. Total Quality Management

PhD Level

1. Bioreactor Engineering
2. Fluidization Engineering
3. Biological Wastewater Treatment
4. Safety Management in Process Industries
5. Fire Engineering and Explosion Control
6. Fire Modeling and dynamics

Laboratories Handled

1. Fluid Mechanics Laboratory
2. Mechanical Operations Laboratory
3. Environmental and Pollution Control Laboratory
4. Unit Operations Laboratory
5. Mechanical Workshop

Publications

International Peer-reviewed Journals	:	8+1
Indian Journal	:	2
International Conferences	:	21
National Conferences	:	11

International Peer-reviewed Journals

1. S.Bhuvaneshwari, **V.Sivasubramanian**, P.Sruthi, Regeneration of chitosan after heavy metal sorption, **J. Scientific and Ind. Res. CSIR journal**. 71 (2012) 266-269.
2. S.Bhuvaneshwari, **V.Sivasubramanian**, Studies on the Production of Lactic Acid from Various Wastes using *Lactobacillus Rhamnosus* and *Lactococcus Lactis Subsp Lactis*, *Int. J. Modern Eng. Res.* 1 (2011) 292-299.
3. S.Bhuvaneshwari, **Sivasubramanian V.** Senthilrani S., Biosorption of Chromium from Aqueous Waste Water using Chitosan and Desorption of Chromium from Biosorbent for Effective Reuse, **Res. J. Chem. Environ.** 15 (2011) 185-191.
4. S.Bhuvaneshwari, D.Sruthi, **V.Sivasubramanian**, Niranjana kalyani, J. Sugunabai, Development and Characterization of Chitosan Film, **Int. J. Eng. Res. Appl.** 1 (2011) 292-299.

5. Naveenji Arun, **Sivasubramanian, V.**, Ashir, A., Development of a Mathematical Model Using Statistical Design of Experiments for the Determination of Gas Holdup in Inverse-Fluidized Bed, **MMIP**. 1 (2011) 497-503.
6. **Sivasubramanian, V.**, Gas-Liquid Mass Transfer in Three-Phase Inverse Fluidized Bed Reactor with Newtonian and non-Newtonian Fluids, **Asia-Pacific J. Chem. Eng.** 5 (2010) 361-368. (Citations: 1)
7. **Sivasubramanian, V.**, Naveen Prasad, B.S., Effects of Superficial Gas Velocity and Fluid Property on the Hydrodynamic Performance of an Airlift Column with Alcohol Solution, **Int. J. Eng. Sci. Technol.** 1 (2009) 245-253.
8. **Sivasubramanian, V.**, Pugazhenth, G., Jegan, J.R., Velan, M., Bed Expansion Characteristics of Two-Phase Inverse Fluidized Bed Reactor in Viscous Systems, **IETECH J. Mech. Design.** 2 (2008) 55 – 61.
9. **Sivasubramanian, V.**, Velan, M., Modified Gas Perturbed Liquid Model (GPLM) for Minimum Fluidization Velocity in a Two-Phase Inverse Fluidized Bed Reactor with Newtonian and non-Newtonian Systems, **J. Chem. Technol. Biotechnol.** 81 (2006) 1232-1238. (Citations: 1)
10. **Sivasubramanian, V.**, Velan, M., Minimum Fluidization Velocity in a Three Phase Inverse Fluidized Bed Reactor with Newtonian and non-Newtonian Fluids, **J. Chem. Eng. Japan.** 37 (2004) 1436-1444. (Citations: 3)
11. Ashir A., **Sivasubramanian V.**, Haribabu K., Selvaraju N., Mathematical Model using Statistical Design of Experiments for the Determination of Minimum Fluidization Velocity in Inverse Fluidized Bed Bioreactor with Non-Newtonian Fluids, **Res. J. Chem. Environ.** (Accepted).
12. Naveenji Arun, **Sivasubramanian, V.**, Ashir, A., Hydrodynamics of Inverse Fluidized Bed Reactor - A Review, **Chem. Eng. Comm.** (Accepted).

Indian Journal

1. Bhuvaneshwari S., Sivasubramanian V., 2009, *NITC Research Review*, Bioaccumulation of heavy metals, 3 (1), 26-29.
2. Santosh K Gurunath, Rengasamy, M., Sivasubramanian, V., 2009. *Rubber India*, Effect of Plasticizer, Filler and Solvent Swell on Polyurethane Elastomers LXI 5 29-34.
3. Partha, N., Sivasubramanian, V., 2006. *Journal of Indian Chemical Engineer*, Recovery of Chemicals from Pressmud – A Sugar Industry Waste 48 (3), 160-163.

International Conferences

1. A study of oil-water emulsion size distribution using dynamic light scattering, CHEMCON2011, MSRIT, Bangalore.
2. Mathematical Model using Statistical Design of Experiments for the Determination of Minimum Fluidization Velocity in Inverse Fluidized Bed Bioreactor with Non-Newtonian Fluids, International Conference on Chemistry and Environment, ICCE2011, Malaysia.
3. Biosorption of chromium from aqueous waste water using chitosan and desorption of chromium from biosorbent for effective reuse, ICCE2011, Malaysia.
4. Inverse Fluidized Bed Reactors for Wastewater Treatment, Recent Advances in Chemical Engineering and Technology, RACET2011, KUSAT, Kochi.
5. Estimation of Wind Velocity using Coupled Receptor-Dispersion model, Recent Advances in Chemical Engineering and Technology, RACET2011, KUSAT, Kochi.
6. Hysteresis phenomena in an inverse fluidized bed reactor, CHEMCON2010, Annamalai University, Chidambaram.
7. Adsorption of golden yellow, Turquoise blue on kaolinite CHEMCON2010, Annamalai University, Chidambaram.
8. Design and development of MOBI ELIXIR-a travel water purifier CHEMCON2010, Annamalai University, Chidambaram.
9. Bio-hydrogen: Fuel of the future – ICAECT 2010, Manipal University, Karnataka.
10. Comparative studies for chitosan yield and chelating ability of *Aspergillus Niger* and *Rhizopus Oryzae* – IMMM 2010, International Conference on Materials, Mechanics and Management, College of Engineering, Trivandrum.
11. Studies on Production of Lactic Acid from Various Wastes using *Lactobacillus Rhamnosus* and *Lactococcus Lactis Subsp Lactis* – CHEMCON 2009, Andhra University, Vishakapatnam.
12. Effect of Plasticizer, Filler and Solvent Swell on Polyurethane Elastomers – APT 08, KUSAT, Kochi.
13. Effect of Organic Additives on the Axial Liquid Phase Ion in Two-Phase Inverse Fluidized Bed Bioreactor for Wastewater Treatment – International Conference on Waste Engineering and Management, ICWEM 2008, Hong Kong.

14. Mass Transfer Studies in an External Loop Airlift Bioreactor for Wastewater Treatment – International Conference on Waste Engineering and Management, ICWEM 2008, Hong Kong.
15. Effect of Organic Additives on the Mass Transfer Performance of the Three-Phase Inverse Fluidized-Bed Columns – CHEMCON 2007, Kolcutta.
16. Recovery of Ellagic Acid from Myrobalan Nuts using Adsorbent Carbon from Pressmud – CHEMCON 2007, Kolcutta.
17. Modified Drift Flux Model for Phase Holdup in a Three Phase Inverse Fluidized Bed Reactor with Newtonian Fluids – CITICOMS, 2007, CIT, Coimbatore.
18. Minimum Fluidization Gas Velocity in a Three-Phase Inverse Fluidized Bed Reactor with Non-Newtonian Fluids – 59th Annual Conference of Indian Chemical Engineering Congress, CHEMCON 2006, GNFC, Bharuch, Gujarat.
19. Adsorption Studies on Fluoride Removal using Carbon from Pressmud Fibre – 59th Annual Conference of Indian Chemical Engineering Congress, CHEMCON 2006, GNFC, Bharuch, Gujarat.
20. Modified Drift Flux Model for Phase Holdup in a Three Phase Inverse Fluidized Bed Reactor with Non-Newtonian Fluids - 58th Annual Conference of Indian Chemical Engineering Congress, CHEMCON 2005, Indian Institute of Technology, Delhi.
21. Hydrodynamic Studies on External Loop Airlift Reactor - 57th Annual Conference of Indian Chemical Engineering Congress (First Indo-US Conference), CHEMCON 2004, Hotel Grand Hyatt, Mumbai.
22. Gas-Liquid Mass Transfer in a Three Phase Inverse Fluidized Bed Reactor with Newtonian systems - 57th Annual Conference of Indian Chemical Engineering Congress (First Indo-US Conference), CHEMCON 2004, Hotel Grand Hyatt, Mumbai (won the best paper award).
23. Phase Holdup and Minimum Fluidization Velocity in a Three Phase Inverse Fluidized Bed Reactor with Newtonian and non-Newtonian Fluids - 56th Annual Conference of Indian Chemical Engineering Congress, CHEMCON 2003, Regional Research Laboratory, Bhubaneswar.

National Conferences

1. Regeneration of biosorbents for effective reuse, BWTGE 2011 – National Conference on Biological Wastewater Treatment towards Green Environment, NITC, Kozhikode. – won the Best Paper Award.
2. Study of phase holdup characteristics in three phase inverse fluidized bed reactor with non Newtonian system and development of statistical model using RSM, BWTGE 2011 – National Conference on Biological Wastewater Treatment towards Green Environment, NITC, Kozhikode – won the Best Paper Award.
3. Hazards associated with the marine transportation of LNG, National Conference 2010 on Safety Technology & Management in Defence (NCSTM 10), Organised by: Centre for Fire, Explosive & Environment Safety (CFEES) Delhi-110054 on behalf of ARMAMENT RESEARCH BOARD (ARMREB)
4. Effluent treatment in petrochemical industries - National Conference on Chemical and Biological Waste Treatment processes for Green Environment, 2010, Trivandrum, Kerala.
5. Adsorption of heavy metal Chromium from wastewater using chitosan - National Conference on Chemical and Biological Waste Treatment processes for Green Environment, 2010, Trivandrum, Kerala.
6. Minimum Fluidization Velocity in an Inverse Fluidized Bed Bioreactor with Xanthan-Gum (Non-Newtonian Fluid) - Emerging Concepts in Biotechnology, 2009, NITC (won the third prize).
7. Critical Gas Velocity in an External Loop Airlift Bioreactor with Additives - Emerging Concepts in Biotechnology, 2009, NITC.
8. Effect of Additives on the Hydrodynamic Performance of Three-Phase External Loop Airlift Reactor – 25th National Convention, 2009, Kochi.
9. Experimental Simulation to Study the Properties of a Medium Scale Methanol Pool Fire – 25th National Convention, 2009, Kochi.
10. Performance of Adsorption in the Purification of Mineral Oils – Chem 09, BPCL, Kochi.
11. Biodegradation studies on ortho, para-chlorophenol using Pseudomonas putida, Technologia 2007, M.P. Christian College of Eng. and Tech., Bhilai, Chhattisgarh.

Book

1. Process Economics and Industrial Management, Galgotia Publications pvt. Ltd., January 2008.

Book Chapter

1. S.Bhuvaneshwari and V. Sivasubramanian, Biosorption of Heavy Metals using Chitosan, Environmental Biotechnology-Recent Perspectives - Application and New Horizons of Environmental Biotechnology, Lambert Academic Publishing. (2012) 115-131.

Guest Lectures

1. "IFBR for Industrial Effluent Treatment" – Key note lecture delivered in ISTE – STTP on "Industrial Effluent Treatment - Emerging Trends and Challenges Ahead - IETETCA – 2012" conducted by Annamalai University, Chidambaram, June 2012
2. Determination of Operational Parameters for an Inverse Fluidized Bed Reactor using GPLM and Drift Flux Model – Lecture delivered in FDP on "Modeling and simulation in Chemical and Environmental Engineering" conducted by NITC in May 2012.
3. "IFBR – Mass Transfer Study with Xanthan Gum (Non-Newtonian Fluid) – Key note lecture delivered in National Conference on Chemical Engineering Processes in Environmental Applications (CEPEA 2012), A.C.College of Technology, Anna University, Chennai, March 2012
4. "Models used in Inverse Fluidized Bed Bioreactor" – Lecture delivered in FDP on "Computer Applications in Chemical and Biological Engineering" conducted by NITC in June 2011.
5. "Inverse Fluidized Bed Reactors for Wastewater Treatment" – Lecture delivered in Recent Advances in Chemical Engineering and Technology, RACET2011, KUSAT, Kochi, March 2011.
6. "Separation of Organic Compounds (Wastes) using Inverse Fluidized Bed Reactors" – Lecture delivered in FDP on "Advanced Separation Processes" conducted by NITC in June 2010.
7. "Waste Management in Process Industries" - Guest Lecture delivered in Staff Development Programme on "Advances in Unit Operations & Processes" conducted for Chemical Engineering faculty of Polytechnics at NITTTT, Taramani, Chennai.
8. "Waste Management" - Guest Lecture delivered in Jepiaar Engineering College, Chennai.

FACULTY DEVELOPMENT PROGRAMS CONDUCTED

1. Coordinator for the FDP2010 on Advanced Separation Processes conducted from 31st May to 05th June 2010 at NIT Calicut.
2. Coordinator for the FDP2012 on Modeling and simulation in Chemical and Environmental Engineering from 28th May to 1st June 2012 at NIT Calicut.

Faculty Development Programs and Training Courses Attended

1. Short-term course on C, C++ organized by the Center for Professional Development Education, Anna University, India.
2. Training course on Modern Teaching Competencies organized by the Center for University-Industry Collaboration, Anna University.
3. Orientation training program on Re-engineering Teaching Skills organized by the Center for Faculty Development, Anna University, India.
4. Short term course on Modeling of Bioreactors organized by the Centre for Continuing Education, Indian Institute of Science, Bangalore, one week January 2006.
5. FDP on Introduction to Research, NITC, 24-25 January 2008.
6. FDP on Optimum Energy Utilization in Thermal Systems, NITC, 17-30 May 2009.
7. FDP on Trends and Techniques in Nano Technology, NITC, 4-17 July 2010.
8. FDP on Advanced Nanomaterials, NITC, 6-12 July 2011.

CONFERENCES ORGANIZED

1. Chairman and Coordinator for the two-day National Conference on Biological Wastewater Treatment towards Green Environment, BWTGE2011 from 28-29th January 2011.

2. Chairman for the two-day National Conference on Recent Trends in Alternate Energy, RTAE2011 from 9-10th June 2011

LECTURES ORGANIZED

1. An improved serpentine flow field with enhanced cross-flow for fuel cell applications – Invited Lecture by Dr Abhijit Deshpande, Professor, Department of Chemical Engineering, IIT Madras – 21.07.12

Conferences and Seminars Attended

1. Seminar on Education Work for Prohibition and Drug Abuse under the Govt. of India, Ministry of Welfare Scheme.
2. Rotaract Silver Jubilee International Conference, Icon'93 Rotaract International at Kamaraj Memorial Hall, Teynampet, Chennai.
3. Seminar on Patent Awareness Program organized by Patent Office, Chennai Branch, Dept. of Industrial Policy and Promotion, Ministry of Commerce & Industry, Govt. of India.
4. National Conference on Role of Technical Education in Sustainable Development organized by the Center for Environmental Studies and Center for Water Resources, Anna University, India.
5. International Conferences CHEMCON 2003, 2004, 2005 and 2006 organized by Indian Institute of Chemical Engineers.
6. International Conference on Modeling and Simulation CITICOMS 2007.
7. International Conference on Waste Engineering and Management (ICWEM), Hong Kong 2008.
8. Workshop on Emerging Trends in Environmental Biotechnology, NITK Surathkal, 12-14 January 2009.
9. ChEM'09, Kerala State Chemical Engineers, Ernakulam, 05-06 June 2009.
10. Twenty-fifth National Convention of Chemical Engineers, Cochin, 09-10 October 2009.
11. National Conference on Chemical and Biological Waste Treatment processes for Green Environment, Trivandrum, Kerala, 25-26 June 2010.
12. International Conference CHEMCON 2010 organized by Indian Institute of Chemical Engineers, Annamalai University, Chidambaram, Tamil Nadu, December 2010.
13. International Conference on Recent Advances in Chemical Engineering and Technology, 10-12 March 2011, Cochin, India.
14. International Conference CHEMCON 2011 organized by Indian Institute of Chemical Engineers, MSRIT, Bangalore, December 2011.

Membership

1. IChE Life Member
2. American Chemical Society Member

Industrial Experience

Industry - Tamil Nadu Industrial Explosives Limited, Vellore, Tamil Nadu Designation - Senior Plant Engineer

1. Nitroglycerine Explosives Plant

- Period : Four years
Nature of Work :
1. Noble's Nozzle – Injector process control to manufacture nitroglycerine
2. Denitration process (Azeotropic Distillation and Absorption) control
3. NG Explosives Production planning
4. Materials planning
5. General Maintenance (Preventive and Breakdown) and Men management

2. Slurry Explosives Plant

- Period : One year
Nature of Work : Slurry Explosives Production planning, Materials planning, Maintenance

- Coordinating Committee Member to get the ISO 9002 certification for M/s Tamil Nadu Industrial Explosives Limited, Vellore, India.

Unit Processes/Operations Handled

1. Noble's Nozzle Injector process and
2. Separation & Nitration processes
3. Steam distillation
4. Azeotropic distillation
5. Mixing, Absorption

Equipments Handled

Centrifugal separator, Heat exchangers, Pumps, Tanks, Injectors, Absorption towers, Distillation towers, Ribbon Blenders, Pneumatic Conveyors, Cartridging Machines (Rolex), Conveyors, Pulverisers and Blowers.

Other activities

Institute Level

1. Head, Department of Chemical Engineering, National Institute of Technology Calicut, India from 20.07.2010 onwards.
2. Member in the Financial Advisory Committee, NITC from November 2011 onwards.
3. Invitee Member in Senate, NITC from July 2010 onwards.
4. Member in the Board of Academic Council, NITC from November 2011 onwards.
5. Member in the Board of Post Graduate Studies, NITC from July 2010 to October 2011.
6. Member in the Board of Under Graduate Studies, NITC from July 2010 to October 2011.
7. Member in Academic Quality Management Council, NITC, 2008-2009.
8. Adjunct Faculty in Department of Management Studies.
9. Coordinator of the new M.Tech program in Chemical Engineering.
10. Coordinator of the new B.Tech program in Biotechnology.
 - a. Prepared the proposal for the Biotechnology program
 - b. Designed the curriculum for Biotechnology
11. Participated in the development of new MBA program.
12. Faculty Coordinator for Tathva07 and Tathva08.

Department Level

1. Purchase Committee member.
2. Designed the Curriculum and Syllabi for B.Tech Chemical Engineering programme.
3. Revised the Curriculum and Syllabi for B.Tech Chemical Engineering programme, 2010.
4. Faculty Coordinator, Association of Chemical Engineering, NITC, India from 2007 to 2010.
5. Faculty Coordinator, IChE Students Chapter, NITC, India, from 2007 to 2010.
6. Ph.D Project Coordinator from 2007 to 2010.
7. B.Tech Project Coordinator from 2009 to 2010.
8. Industrial visit to Travancore Cochin Chemicals, Cochin Minerals & Ratiles Ltd. and Sud Cheme, Kochi on 15.03.08.
9. Guided the students for their Value Education and Environmental Project Works.
10. Coordinator for the Inauguration of Association of Chemical Engineering.
11. Coordinator for the inauguration of IChE Students Chapter in collaboration with IChE, Kochi Regional Centre.
12. Chairman for one day workshop on Recent Trends in Experimental and Computational Techniques in Chemical Engineering.

In A. C. College of Technology, Anna University, Chennai

1. Additional Chief Superintendent of Examinations.
2. Coordinator for Renewable Energy Club – ACT, Chennai, India.

3. Deputy presiding officer for GATE 2007 – ACT, Chennai, India.
4. Recognized as a Supervisor for guiding Ph.D. and M.S. (by Research) Scholars of National Institute of Technology in the area of “CHEMICAL ENGINEERING”.
5. Review committee member for PG project works.
6. Purchase in charge for DST – FIST and TEQIP.

Declaration

I hereby declare that all the information presented above is true to the best of my knowledge.

Place : Calicut, India

Yours Sincerely

Date : 27.07.2012

[Dr. V. Sivasubramanian]