

CURRICULUM VITAE

DR. SURESH SUNDARAMURTHY

August 2013

Address for Communication

Assistant Professor,
Department of Chemical Engineering,
Maulana Azad National Institute of Technology Bhopal-
462051, M.P., India

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ACADEMIC RECORD

- | | |
|-----------------------|---|
| July 2007 – July 2010 | Ph.D., Chemical Engineering with specialization in Environment, Energy and Biochemical Engineering,
Indian Institute of Technology Roorkee. |
| July 2004 – May 2006 | M.E., Chemical Engineering
Annamalai University. |
| July 2000 – May 2004 | B.Tech., Chemical Engineering
Pondicherry Engineering College, Pondicherry University. |
| July 2005 – May 2006 | D.I.S., Diploma in Industrial Safety, Annamalai University. |

PROFESSIONAL POSITIONS

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| Sep 2013-till date | Department incharge/coordinator, Chemical Engineering, MANIT Bhopal |
| Dec 2011-Feb 2012 | Visiting Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research, International Centre for Materials Science, Bangalore. |
| Aug 2010 – till date | Assistant Professor, Department of Chemical Engineering, Maulana Azad National Institute of Technology Bhopal, M.P., India |
| Aug 2009 – July 2010 | Senior Research Fellow, Department of Chemical Engineering, Indian Institute of Technology Roorkee. |
| July 2007 – July 2009 | Junior Research Fellow, Department of Chemical Engineering, Indian Institute of Technology Roorkee. |
| Feb 2007 – June 2007 | Project Associate, Department of Chemical Engineering, Indian Institute of Technology Kanpur. |
| June 2006 – Jan 2007 | Project Associate, Centre for Pollution Control & Energy Technology, Pondicherry University. |

RESEARCH INTERESTS

- Separation process
- Adsorption and catalysis
- Nano-engineered materials
- Graphene containing nanocomposites
- Waste utilization,
- Desulfurization of fuels
- Photo-catalytic process
- Petroleum oily/brine sludge
- VOC/CO₂ capture
- Extraction of nano/celluloses
- Membrane process
- Phyto-remediation
- Vermireactor
- Fermentation
- Biofuels/Solar cells

SPECIAL ACHIEVEMENTS

1. **R&D Project:** Treatment of industrial wastewater using sequential batch reactor (SBR) - 45 Lacs; Production of Electricity using low-cost biomass-0.25 Lakh, MHRD-MANIT Bhopal (Grant-Aid-Scheme). *High performance liquid chromatography (HPLC), Sequential batch reactor (SBR), Laboratory shaker etc* were purchased.
2. **R&D Project:** Extraction of fibres from raw sisal plants-15.45 Lakhs (under progress), Handloom and Handicraft Rural Development Department, Government of Madhya Pradesh, India
3. **R&D Project:** Development of Novel separation Processes, MHRD-MANIT Bhopal-50 Lacs
4. **R&D Project:** Treatment of industrial wastewater using photocatalysis process, MPCST, MP Govt, India-5.45 lacs (under progress)
5. **R&D Project:** Biorefinery, DST, India- 45 lacs (under progress)
6. **R&D Industrial Project:** Treatment of brine sludge, TEQIP & Grasim Industry, Nagda, Bhopal, India- 14.45 lacs (under progress)
7. **R&D Project:** Algae Bioreactor For Wastewater Treatment And Sustainable Energy Production, MoEF, India- 53.50 lacs (under progress)
8. **Young Scientist Award:** 4th Uttarakhand State Science & Technology Congress, Department of Science & Technology, 2009.
9. **Setup bioreactor @ phytoreactor**, i.e, The First two pilot-scale SHEFROL in India (SHEet Flow ROot Level) technology (wastewater treatment) based on plants
10. **Research Guidance:** B. Tech. Projects: 16+ 10 (in progress)
M. Tech./M.S/M. Phil. Dissertations: 05 completed; 02 (in progress)
Junior/Research Fellow :04
Ph.D. Thesis: 04 (in progress)

MEMBERSHIP OF PROFESSIONAL BODIES

- a. **Life Associate Member:** Indian Institute of Chemical Engineers (IChE) - LAM 33054.
- b. **Life Associate Member:** The Institution of Engineers (India) (IE)-AM098362-7
- c. **Life Member:** Indian Water Resources Society (IWRS)- LM 107219
- d. **Life Member:** International Congress of Chemistry and Environment-LF/S-48
- e. **Life Member:** Solar Energy Society of India (SESI)-LM/1723/2011
- f. **Life Member:** Indian Society for Technical Education (ISTE)-LM 79801
- g. **Life Member:** The Biotech Research Society (BRSI)- LM 1292
- h. **Life Member:** Chemical Research Society of India (CRSI)- LM
- i. **Life Member:** Catalysis Society of India (CSI)- LM

EDITOR/ASSOCIATE EDITOR

Int. J. Chem. Res., Int.J. Knowledge Eng., Academic Journals Online. *Editor in special issue:* J. Ecol. Environ. Sci., Int. J. ChemTech Res.

PEER REVIEWER: American Chemical Society, Elsevier, Springer, Taylor and Francis and others

Chem. Eng. J, Ind. Eng. Chem. Res., J. Hazard. Mater, CLEAN - Soil, Air, Water, Can. J. Chem. Eng., Bioremed. J, Braz. J. Chem.Eng., Int. J. Environ. Res., J. Ind. Eng. Chem., Sep. Sci. Tech., Chem. Eng. Commun., J. Integrative Environ.Sci., Exp.Therm. Fluid Sci., J. Inst. Eng. (India): Series E, Adsorp., Int.J. Chem. Res., Environ. Eng. Manage. J and other reputed journals.

COURSES TAUGHT

1. Chemical Reaction Engineering, 2. Biochemical Engineering, 3. Bio-energy Engineering, 4. Bioprocess Engineering, 5. Environmental Pollution Control, Design and Modelling, 6. Process Modelling and Simulation 7. Advance Separation Processes 8. CFD Multiphase reactors.

COMPUTER PROGRAMMING SKILLS

C++, MATLAB, ASPEN PLUS, MINITAB

PROFESSIONAL EXPERIENCE

1. **Program convener, International Conference on “Global Scenario in Environment and Energy” (ICGSE² 2013)** sponsored by TEQIP, MANIT Bhopal, March 14-16, 2013
2. **Coordinator, Short-term course on “Green Catalysis For Industrial Applications”**, 07-11 May, 2012, Department of Chemical Engineering, Maulana Azad National Institute of Technology Bhopal, India.
3. **Coordinator, Two weeks Workshop on “Heat Transfer”**, Nov’ 29-Dec’ 10, 2011, Under the National Mission on Education through ICT (MHRD, Govt. of India) & IIT Bombay.
4. **Coordinator, Short-term course on “Recent Trends in Industrial Pollution and Energy Management”**, 09-13 May, 2011, Department of Chemical Engineering, Maulana Azad National Institute of Technology Bhopal, India.
5. **Warden, New Hostel (Energy Centre)**, MANIT Bhopal, July 2012-July 2013.
6. **Warden, Hostel No.8**, MANIT Bhopal, July 2013-till date.
7. **Ph.D. Thesis Examiner:** Ph.D. thesis examiner at PSG College of Technology, Coimbatore, Anna University, Chennai
8. **Faculty recruitment coordinator**, Department of Chemical Engineering, MANIT, Bhopal.
9. **Instrumental as Head in launching academic programme–M.Tech. (Chemical Process Design)**, B.Tech syllabus committee member, MANIT, Bhopal, India.
10. **SRPC Coordinator**, Faculty Convener, Chemical Engineering Association and IChE students chapter coordinator, Departmental Infrastructure coordinator, Departmental library coordinator, B.Tech project coordinator, Board of Studies (BOS) member, Examination coordinator, Convocation coordinator, Department of Chemical Engineering, MANIT, Bhopal, India.
11. **Industrial Pollution Abatement and Mass Transfer laboratories** faculty In-charge and its manual framed, Department of Chemical Engineering, MANIT, Bhopal, India.
12. **Heat transfer laboratory: Experimental conducting in-charge**, Department of Chemical Engineering, MANIT, Bhopal, India.
13. **Observer** for Joint Entrance Examination JEE (Main)-2013.
14. **External examiner** for the Process & Instrumentation and Chemical Reaction Engineering Laboratories Viva-voce, Department of Chemical Engineering, Ujjain Engineering College, Ujjain, M.P, India. **External examiner** for the Heat transfer Laboratory Viva-voce, Department of Chemical Engineering, MITS, Gwalior, M.P, India. **External examiner** for the Process Equipment Design and Bioprocess Technology Laboratories Viva-voce, Department of Chemical Engineering, IPS Academy, Indore, M.P, India.
15. **Setting B.Tech and M.E. Question papers** (Petroleum Processing Technology, Heat Transfer, Material & Energy Balance, Petroleum Processing Technology and Fundamentals of Chemical and Biochemical Engg.-I, Advance Chemical Reaction Engineering), MITS, Gwalior, & Ujjain Engineering College, Ujjain, M.P, Heat transfer, SAMRAT Ashok Technological Institute, Vidisha, M. P, India.
16. **Technical Committee:** International Conference on Green Computing and Technology, Organized by the SIES Graduate School of Technology, September 05 -06, 2013, Navi Mumbai.
17. **Organizing Committee:** Third IFIP International Conference on Bioinformatics, Organized by Department of Mathematics, MANIT Bhopal, September 23 -26, 2013

18. **Ph.D. class representative** in the year of 2009-2010, Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, India.
19. **M.E. class representative** in the year of 2006-2007, Department of Chemical Engineering, Annamalai University, Tamil Nadu, India.
20. **Executive member** - Association of Chemical Engineering Students, 2003-2004, Pondicherry Engineering College (PEC), Puducherry, India.
21. **Head-Engineering Advising committee-** J-O-U-R-N-E-Y-Multipurpose Social Service & Society Development Centre, 2006-till data, Puducherry, India.

BOOKS/PUBLICATIONS

BOOK SERIES

1. **Suresh S**, Keshav A. "Textbook of Separation Processes", *Studium Press (India) Pvt. Ltd* (ISBN: 978-93-80012-32-2), 1-459, 2012.
2. **Suresh S**, Sundaramoorthy S, "Green Chemical Engineering: An introduction to Catalysis, Kinetics and Chemical processes", *CRC Press, Taylor & Francis Group*, (In press), 2013.
3. **Suresh S**, Sudhakar K., "Global Scenario in Environment and Energy", BSP Publisher (India), Pvt. Ltd, (ISBN: 978-81-7800-286-6), 1-424, 2013.
4. **Suresh S**, Keshav A, "Textbook of Advanced Transport Phenomena". BSP, (In press), 2013.
5. **Suresh S**, Sachin Kumar Sharma, Keshav A, "Textbook of Biotechnological Processes for Petroleum Industries" *Studium Press (India) Pvt. Ltd* (under review), 2013.
6. **Suresh S**, Arisutha S, Keshav A, Appu Kuttan K K. "Textbook of Biomass Conversion to Biofuel and Bioenergy", *PHI (India) Pvt. Ltd* (under review), 2013.

BOOK CHAPTERS

1. **Suresh S**, Srivastava V.C., Mishra I.M. "Oxygen Mass Transfer in Bioreactors" *Science direct (Elsevier), Comprehensive Biotechnology*, Vol. 2, 947-956 (ISBN: 978-0-08-088504-9), 2011.
2. **Suresh S**, Srivastava V.C., Mishra I.M. Shake flask engineering In: Power consumption in shake flask, *Encyclopedia of Industrial Biotechnology: Bioprocess, Bioseparation, and Cell Technology*, John Wiley & Sons, Inc. (In press), 2012.
3. **Suresh S**, Keshav A, "Advances in Chemical Engineering" In: Geopolymer: Sustainable cement", Apple Press, USA (under review), 2013
4. **Suresh S**, Arisutha S, "Advances in Fertilizer Engineering" Membrane Contactor Technology-An introduction and case study of fertilizer industry effluent", *Studium Press (India) Pvt. Ltd*, USA (under review), 2013
5. **Suresh S**, Arisutha S, Global scenario in Environment and Energy, In: Study Of Standalone Solar, Wind And Biomass For Rural Electrification: An Overview, BS publication (ISBN: 978-81-7800-286-6) 2nd chapter, Vol. 1, 2013.
6. **Suresh S**, J. Gopalakrishnan, Ganga Agnihotri, D. M. Deshpande, Global scenario in Environment and Energy, In: Role Of Cathodic Protection In Energy Security And Environmental Protection. BS publication (ISBN: 978-81-7800-286-6) 5th chapter, Vol. 1, 2013.
7. **Suresh S**, Varsha Jain, Ranjana Juneja, Nupur gupta, Aditi Mandloi, Shaktinath Das, Rajesh Babu Katiyar, Global scenario in Environment and Energy, In: Plasma Technology: A Brief Primer Solid Waste Management. BS publication (ISBN: 978-81-7800-286-6) 6th chapter, Vol. 1, 2013.
8. **Suresh S**, Sachin Kumar, Removal of Dyes from Textile Wastewater using Photo-Oxidation: A review paper on current technology. BS publication (ISBN: 978-81-7800-286-6) 5nd chapter, Vol. 1, 2013.
9. **Suresh S**, Rajesh Babu Katiyar, A. K. Sharma, Global scenario in Environment and Energy, In: Municipal Solid Waste Management In Bhopal, India-A Review, BS publication (ISBN:

PATENT

1. **Suresh S**, Abbasi S.A. “Pilot plant wastewater treatment using novel SHEFROL technology”, Indian National Committee on Hydrology/The Indian National Committee on Ground Water, MoWR project, TIFAC (DST), Indian patent, (Communicated). 2010.

INTERNATIONAL JOURNAL

SCI IF JOURNAL(2009-2013)

1. **Suresh S**, Srivastava V.C., Mishra I.M. *J. Chem. Technol. Biotechnol.* 2009; 84: 1091– 1103.
2. **Suresh S**, Srivastava V.C., Mishra I.M. *Crit. Reviews Biotechnol.* 2009; 29(4): 255–278.
3. **Suresh S**, Srivastava V.C., Mishra I.M. *Int. J. Chem. React. Eng.* 2009; 7 (A89): 1-14.
4. **Suresh S**, Srivastava V.C., Mishra I.M. *J. Chem. Eng. Data (ACS)*. 2011, 56 (4), 811–818.
5. **Suresh S**, Srivastava V.C., Mishra I.M. *Chem. Eng. J.* 2011, 171 (3), 997-1003.
6. **Suresh S**, Srivastava V.C., Mishra I.M. *J. Environ. Eng. (ASCE)*. 2011, 137(12), 1145-1157
7. **Suresh S**, Srivastava V.C., Mishra I.M. *Sep. Sci. Technol.* 2011, 46(11), 1750 - 1766.
8. **Suresh S**, Ramesh Raja D. *Int. J. Environ. Res.* 2011, 5(2), 349-360.
9. **Suresh S**. *Res. J. Chem. Environ.* 2011, 15 (2).
10. **Suresh S**, Srivastava V.C., Mishra I.M. *Environ. Technol.* 2012, 33 (7), 773-781.
11. **Suresh S**, Verma V., Keshav A, Soni A.B. *Int. J. Environ. Res.* 2012, 6(1):297-308.
12. **Suresh S**, Kamsonlian S., Majumder C.B., Chand S. *Bioremed. J.* 2012, 16(2):97–112
13. **Suresh S**, Kamsonlian S., Ramanaiah V, Majumder C.B., Chand S., Kumar A. *Int. J. Environ. Sci. Technol.* 2012, 9:565–578
14. **Suresh S**. *Journal of The Institution of Engineers (India): Series A.*, 2012, 93, 3, 151-161.
15. **Suresh S**, Srivastava V.C., Mishra I.M. *Chem Ind. Chem. Eng. Q.* 2013, 19 (2) 195–212.
16. **Suresh S**, Kamsonlian S., Majumder C.B., Chand S. *Asian J. Chem.* 2013,25, 5, 2409-2417.
17. **Suresh S**, Srivastava V.C., Mishra I.M. *Theoretical Foundations of Chem. Eng.* 2013, 47, 3, 284–290.
18. **Suresh S**, S. Arisutha, Arvind Mittal and K. Sudhakar, D.M. Deshpande. *IEEE Xplore*, 2013, 14-16, (978-1-4673-6027-2).
19. **Suresh S**, Pramoda K, H. S. S. Ramakrishna Matte, A. Govindaraj, CNR. Rao. *Bulletin of Materials Science.* 2013, 36, 4, 585–590.
20. **Suresh S**, Kusuma Ravi Teja and S. Chand. *Int. J. Environ. Waste Manage.* 2013 (Accepted)

SCI JOURNAL(2009-2013)

22. **Suresh S.**, S. Kamsonlian, C. Balomajumder, S. Chand. *Afr. J. Environ. Sci. Technol.* 2011; 5(1), 1-7.
23. **Suresh S**, Sudhakar K, Premalatha M. *Int. J. Chem. Res.* 3 (3), 110-117, 2011.
24. **Suresh S**, Kamsonlian S., Majumder C.B., Chand S. *Int. J. Current Eng. Technol.* 2(1), 153-158, 2012.
25. **Suresh S**, Srivastava V.C., Mishra I.M. *Advances in Engineering Series*, 2012
26. **Suresh S**, Rajesh P., Prasad B. *Int. J. Biol. Sci. Eng.* 3: 223-228, 2012
27. **Suresh S**, A. Sharma, Dubey A. *J. Adv. Mater. Res.* (Trans Tech Publishers). 585: 322-326, 2012
28. **Suresh S.**, Vijayalakshmi G., Rajmohan B. and Subbaramaiah V., *Recent Patents Chem. Eng.* 5(2), 116-133, 2012
29. **Suresh S**, Srivastava V.C., Mishra I.M. *Int. J. Energy Environ. Engg.* 3, 32, 1-19, 2013
30. **Suresh S**, Shubham Gupta, Vikram Uday, Amit Singh Raghuwanshi, Samarth Chowkshey, Shakti Nath Das, *APCBEEES Procedia*, 5, 468-473, 2013

31. **Suresh S**, Priyanka Gautam, Piyush Pratap Singh, Animesh Mishra Abhishek Singh Shakti Nath Das. *International Journal of ChemTech Research*, 5, 2, 1024-1029, 2013.
32. **Suresh S**, Meena Solanki, Shaktinath Das, Kanchan Shukla. *International Journal of ChemTech Research*, 5, 2, 610-615, 2013.
33. **Suresh S**, Animesh Mishra, Abhishek Pandey, Prateek Maheshwari, Abhishek Chouhan, Shaktinath Das. *International Journal of ChemTech Research* 5, 2, 616-622, 2013.
34. **Suresh S**, Rajesh Babu Katiyar, A. K. Sharma. *International Journal of ChemTech Research*, 5, 2, 623-628, 2013.

NON-SCI JOURNAL(2009-2013)

35. **Suresh S**, Abbasi S A, Gajalakshmi S, Nothing fancy, two aquatic plants do the trick, *The Hindu and Dinamalar* (India's National Newspaper), Wednesday, Jun 14, 2006.
36. **Suresh S**, Abbasi S A, Technology for wastewater treatment, *Technology Scan-TECH MONITOR, A National Magazine*, July-Aug, 2006: 9-10.
37. **Suresh S**, Chandrasekhar, G. *Pet. Conser. Res. Assoc. Oct – Dec*, 2009: 16-17.
38. **Suresh S**, Ravi Shankar, Chand, S. *J. Fut. Eng. Technol.* 6, 1, 36-46, 2011.
39. **Suresh S**, Ravi Kant Tripathi and M. N. Gernal Rana. *Int. J. Sci. Technol. Manage.* 2 (1), 64-84, 2011.
40. **Suresh S**, Kamsonlian S., Majumder C.B., Chand S. *J. Fut. Eng. Technol.* 71 (11), 34-41, 2011.
41. **Suresh S**, Kamsonlian S., Majumder C.B., Chand S. *Int. J. Sci. Technol. Manage.* 2(4), 1-7, 2011.
42. **Suresh S**, Laboratory scale biogas technology, *The Patika* (India's National Newspaper), Saturday, Sep 15, 2012
43. **Suresh S**, Demonstration of Laboratory scale biogas technology, Telecasted on *Doordarshan National TV*, Saturday, Sep 15, 2012

COMMUNICATED PAPERS (2009-2013)

1. **Suresh S**, Sachin Kumar *Pet. Sci. Technol.* 2011.
2. **Suresh S**, Sachin Kumar. *Catal. Today.* 2011.
3. **Suresh S**, Srivastava V.C., Mishra I.M. *Brazilian Journal of Chemical Engineering.* 2012.
4. **Suresh S**, Sachin Kumar. *Renewable & Sustainable Energy Reviews* 2012
5. **Suresh S**, Sachin Kumar, Arisutha, S. *Journal of The Institution of Engineers (India): Series E.*, 2012

INVITED TALKS

INTERNATIONAL

1. Utilization of mixed agricultural residues and cow dung into value-added products: A Case study, International Conference on Sustainable Energy & Environmental Protection, Univerza v Mariboru, Maribor-Slovenia, 20-23 August 2013
2. Recovery of picolinic acid from aqueous stream by reactive extraction, International conference on Advances in Chemical Engineering, Department of Chemical Engineering, National Institute of Technology Raipur, Chhattisgarh, India April 8-9, 2013.
3. Study of Linear Low Density Polythene And Its Blend Using Mixed Culture Compost. International Conference, APA 2013 on "Polymers on the Frontiers of Science and Technology" under the auspices of European Polymer Federation (EPF) at Punjab University, Chandigarh on February 21-23, 2013.
4. Application of surfactants to enhanced oil recovery from Petroleum Industry- A Review, *International Conference On Advances in Chemical Engineering (ACE-2013)*, Department of Chemical Engineering, IIT Roorkee, Feb 22 – 24, 2013.

5. Simulation Of Blow Molding Using ANSYS Polyflow, *4th International Conference on Environmental Science and Development*, Dubai, UAE, Jan 19-20, **2013**.
6. An Overview Of Sustainable Power Development Of Auroville Village. *International Conference on Science, Technology and Social Science 2012*. Universiti Teknologi MARA Pahang, Malaysia. Nov 20-22, **2012**.
7. Wear and Frictional Properties of Sisal Fibre Reinforced Composite. *International Conference on Advances in Materials and Processing: Challenges and Opportunities*, Department of Metallurgical & Material Science, IIT Roorkee, Nov, 2-4, **2012**.
8. Adsorption of Aniline, Phenol, 4-Chlorophenol and 4-Nitrophenol Onto Granular Activated Carbon: Isotherm, Thermodynamics and Relationship with Solvatochromic Parameters. *Environmental Applications of Adsorption III: Liquid Phase*, American Institute of Chemical Engineers (AIChE), 2012 Annual Meeting, Pittsburgh, USA. Oct 28-Nov 2, **2012**.
9. Preparation of green catalyst from industrial waste. *International Conference on Energy-Water-Waste Nexus for Environmental Management (ICEWWNEM-2012)* Department of Energy & Environmental Sciences, Ch. Devilal University, Sirsa, India January 28-30, **2012**.
10. Preparation of nanocelluloses from sisal plants (*Agave Sisalana*). *Winter School on Chemistry and Physics of Materials*, jointly organized by International Centre for Materials Science at Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore and Cambridge University, UK Dec 5-10, **2011**.
11. Preparation Of Nanocelluloses From Sisal Plants (*Agave Sisalana*) and Self-Reinforced Sisal Fiber Composites. *International Conference of Chemical Engineering and Industrial Biotechnology*, ICCEIB-SOMChE 2011 at Malaysia 28 Nov - 1 Dec, **2011**.
12. Equilibrium modeling of binary adsorption of aniline and hydroquinone onto granular activated carbon. Brazil, March 21-24, **2011**.
13. Sequential batch reactor (SBR) treatment for industrial wastewater – A review. *International Conference on Recent Advances in Chemical Engineering and Technology RACET 2011*. Cochin, India. March 10-12, **2011**.
14. An overview of micro-algae: carbon sequestration and bio diesel in Indian scenario *ICAE 2011 - International Conference on Applied Energy*, Perugia, Italy. May 16-18, **2011**.
15. Catalytic desulphurization for the removal of sulfur compounds using chemical oxidative process. *5th International Conference on Environmental Science and Technology*, American Academy of Sciences, Hilton Hotel, Houston, Texas, USA. July 12-16, **2010**.
16. Studies on simultaneous adsorption of aniline and catechol onto granular activated carbon. *International conference on Chemical Engineering and Biotechnology 'ChemBiotech' 09-10*, NUS, Singapore. Jan 28-29, **2010**.
17. Desorption and disposal study for Aniline-loaded Granular Activated Carbon. *International Conference on Separation Processes 2009*, organized by Department of Chemical Engineering, IT BHU, Varanasi, India. Oct. 20-22, **2009**.
18. Adsorption isotherm and thermodynamics for removal of Catechol and Resorcinol onto Granular Activated Carbon. *International Conference on Separation Processes 2009*, organized by Department of Chemical Engineering, IT BHU, Varanasi, India. Oct. 20-22, **2009**.

NATIONAL

1. **Suresh S**, Separation of ammonia from fertilizer effluent using hollow fibre membrane technology. **Key note speaker**: TEQIP sponsored faculty development program on “Reverse Osmosis - Principle and Applications”, Department of Chemical Engineering, PEC Puducherry, June 17-21, 2013.

2. **Suresh S**, Modeling the performance of the anaerobic digester systems for biogas energy production. *Key note speaker*, “Two days workshop on Emerging technologies for conversion of biomass to biofuels”, Department of Energy, MANIT Bhopal, 22-23, Sep’ 2012
3. Treatment of industrial wastewater using sequential batch reactor: A preliminary study, 3rd National Conference on “Urban & Industrial Waste Management 2012, June 29, 2012, Ahmedabad, India
4. Catalytic Conversion of Plastic Waste to Fuels, in the short term course on” Green Catalysis For Industrial Applications”, 07-11 May, 2012, Department of Chemical Engineering, Maulana Azad National Institute of Technology Bhopal, India.
5. Zeolites synthesis and its application as adsorbent, in the short term course on” Green Catalysis For Industrial Applications”, 07-11 May, 2012, Department of Chemical Engineering, Maulana Azad National Institute of Technology Bhopal, India.
6. Study of various techniques of heat transfer augmentation. Recent Advances in Chemical Engineering (*RACE 2012*), Department of Chemical Technology, Maharashtra University, Jalgaon, 4th Feb, 2012.
7. Synthesis and characterization of Na-Y zeolite from coal fly ash. *CHEMCON-2011* organized by IChE & M S Ramaiah Institute of Technology, Bangalore, India. Dec.27-30, **2011**.
8. Effect of attrition milling on slag cement. *All India seminar on Blended Cements in the Sustainable Development of Cement Industry* organized by Chemical Engineering Division Board, The Institution of Engineers (India), Madhya Pradesh State Centre, Nov. 26-27, **2011**.
9. Production of bio-diesel by using micro–algae: challenges and Future Prospects. Short term course on *Recent trends in Industrial Pollution and Energy Management*, MANIT Bhopal, 09-13th May, **2011**.
10. Micro–Algae as a source of Bio diesel: Challenges and Future Prospects. *Institution of Engineers (IE)*, Bhopal, India. Jan. 8-9, **2011**.
11. Production of electricity using low-cost biomass *Techfest*, Indian Institute of Technology, Bombay, India. Jan. **2011**.
12. Removal of phenol by electro-coagulation: granular activated carbon as a enhancement factor. *63st Annual Session of CHEMCON-2010* organized by IChE & Annamalai University, India. Dec.27-30, **2010**.
13. Various Techniques of Brine Sludge Disposal/Bearing Wastewater. *Biochemcon2010*, Priyadarshini Institute of Engineering and Technology, Nagpur, India. Dec, 22-23, **2010**.
14. Preparation of green catalysis for application of various treatment processes. *Green Chem 2010*, Department of Chemistry, Vikramajit singh sanatan dharam college, Kanpur. Oct 22-23, **2010**.
15. Equilibrium modeling of binary adsorption of aniline and catechol onto granular activated carbon. *ChEmference 2010*, Indian Institute of Technology Kanpur. July 13-14, **2010**.
16. Application of sequential batch reactor (SBR) for the wastewater treatment: A review. *National Symposium on Reaction Engineering (NSRE-2010)*, National Institute of Technology Raipur, Chhattisgarh, India. Jan 22-23, **2010**.
17. Green house gas reduction and carbon trading opportunity in polymer industries. *National Symposium on Reaction Engineering (NSRE-2010)*, National Institute of Technology Raipur, Chhattisgarh, India, Jan 22-23, **2010**.
18. Application of polymeric adsorbents for removal of petrochemical compounds from wastewater: a short review *National Symposium on Reaction Engineering (NSRE-2010)*, National Institute of Technology Raipur, Chhattisgarh, India Jan 22-23, **2010**.
19. Kinetics of reactive extraction of propionic acid using mechanically agitated contactor.

- National Symposium on Reaction Engineering (NSRE-2010)*, National Institute of Technology Raipur, Chhattisgarh, India, Jan 22-23, **2010**.
20. Hydro electric energy: Indian scenario. Bangalore. July, **2009**.
 21. Adsorption isotherm and thermodynamics for removal of Aniline onto Granular Activated Carbon. *62st Annual Session of CHEMCON-2009* organized by IChE & Andhra University, India. Dec.27-30, **2009**.
 22. Kinetic study on removal of Phenol and 4-Chlorophenol by Granular Activated Carbon *62st Annual Session of CHEMCON-2009* organized by IChE & Andhra University, India. Dec.27-30, **2009**.
 23. Modelling of binary adsorption of Aniline and Phenol onto granular activated carbon *4th Uttarakhand state Council for Science and Technology (UCOST)*, Pantnagar, Uttarakhand, India. Nov. 10-12, **2009**.
 24. Kinetic study on removal of catechol (C) and resorcinol (R) by Granular Activated Carbon (GAC), *4th Uttarakhand state Council for Science and Technology (UCOST)*, Pantnagar, Uttarakhand, India. Nov. 10-12, **2009**.
 25. A review of variables affecting the oxygen transfer rate (OTR)/ k_La in bioreactors. *AChemE 2009*, organized by Department of Chemical Engineering, Thapar University of Engineering & Technology Patiala, India. Feb 27-28, **2009**.
 26. Modeling of bioreactor for the production of L-glutamic acid using *Corynebacterium glutamicum* fermentation. *61st Annual Session of IChE & CHEMCON-2008*, Chandigarh, India. Dec. 27-30, **2008**.
 27. Comparison of techniques for the determination of the OTR/ k_La in bioreactors. *61st Annual Session of IChE & CHEMCON-2008*, Chandigarh, India. Dec. 27-30, **2008**.
 28. Novel (Shaken) Bioreactors: Application to Biotechnology and Chemical Engineering. "Recent Advances in Chemical Engineering Operation and Process in Chemical and Allied industries" on organized by Guru Ghasidas University, Bilaspur, Chhattisgarh, India. Feb.5-6, **2008**.

COURSES ATTENDED/TRAINING

1. **TEQIP sponsored faculty development program on "Reverse Osmosis - Principle and Applications" June17-21, 2013**, Department of Chemical Engineering, PEC Puducherry
2. **AICTE sponsored faculty development program on " Computational techniques and its applications in Engineering research" May 27- June 7, 2013**, Department of Mechanical Engineering, PEC Puducherry
3. **TEQIP sponsored faculty development program on "Green Manufacturing and Material Processing" June 10-14, 2013**, Department of Mechanical Engineering, PEC Puducherry
4. **Two days National Workshop on "Recent Trends in Renewable Energy", 09-10, Nov, 2012**, Department of Mechanical Engineering, MANIT Bhopal.
5. **Two days National seminar on "Energy, Environmental and Sustainability", 1-2 March, 2012**, Department of Energy, MANIT Bhopal.
6. **Two days Workshop on "Writing Effective Conference Papers", 18-19 Feb. 2012**, Under MHRD, Govt. of India & IIT Bombay, MANIT Bhopal.
7. **ISTE Workshop for Coordinators On Heat Transfer**, Under the National Mission on Education through ICT (MHRD, Govt. of India), IIT Bombay, Sep 12-16, **2011**
8. **Green technology towards low carbon society**, MANIT, Bhopal, March 30, **2011**
9. **Cleaner technology**, short-term course, CPCB-IIT Roorkee, Feb., 23-25, **2011**.
10. **National conference on genomics: Tool for Bioprospecting**, Department of Bioinformatics, MANIT, Bhopal, Nov 20-21, **2010**.
11. **International conference and exhibition on Oil and Gas**, Petrotech2010, ONGC, New Delhi, Oct 31-Nov 03, **2010**.
12. **Science and Technology for Sustainable Development of India**, Department of

- Electrical Engineering, MANIT, Bhopal, Aug 13-14, **2010**.
13. **Use of sophisticated instruments like GC-MS/GC, HPLC, CHNS, AOX analyzer**, CPCB and IIT Roorkee, Feb 15-19, **2010**.
 14. **Safety, Health and Environment Management in Hydrocarbon Industry**, Petroleum Federation of India, Petrotech Society and IIT Roorkee, Jan 22-24, **2008**.
 15. **Pollution Control Techniques for Distillery Waste**, CPCB and IIT Roorkee, March 3-5, **2008**.
 16. **Hazardous Waste, Batteries Waste and E-Waste Management**, CPCB and IIT Roorkee, Nov 13-15, **2008**.
 17. **Computational Fluid Dynamic**, QIP Short term course. AICTE and IIT Roorkee, June 16-27, **2008**.
 18. **Environment, Health and Safety Management in Process Industries**, CPCB and IIT Roorkee, Oct 20-22, **2008**.
 19. **Recent Trends in Environmental Management Strategies in Petroleum, Petrochemical and Fertilizer Industries**, CPCB and IIT Roorkee, Feb 11-13, **2008**.
 20. Municipal Solid Waste-Planning, Collection, Handling and Disposal, IIT Roorkee, Dec 4-8, **2007**.
 21. **Solving challenges of chemistry through analysis** organized by Indian Institute of Technology Kanpur from May 2007 to June 2007. I have learned the following from this course: UV-Visible Spectroscopy, Thin-Layer Chromatography (TLC), Gas Chromatography (GC), High Pressure / Performance Liquid Chromatography (HPLC), Atomic absorption Spectroscopy (AAS), FT-IR Spectroscopy, Thermogravimetric analysis (TGA), X-ray diffraction (XRD), Scanning Electron Microscopy (SEM), Energy Dispersive X-ray (EDX), Transmission Electron Microscopy (TEM), Surface area analyzer, Pore volume distribution analyzer, CHN analyzer.
 22. **Industrial Training** at Indo-Gulf Fertilizers Ltd., (Aditya Birla group) Jagdishpur (U.P.), India, March-**2007**.
 23. **UGC Refresher course on Industrial Biotechnology**, University Grant Commission and Annamalai University, Nov 3-27, **2004**.
 24. **Industrial Training** at SKOL Breweries Pvt Ltd, Puducherry, India, June – **2003**
 25. **Participating in Non-Government Organization (NGOs) programming** including Environmental Pollution and its Control, Puducherry, **2006-till date**.