1	Name	AMIT ARORA	Email: aroraamitlse@yahoo.com
2.	Designation	Assistant Professor (Chemical Engineering) Associate Professor (Due on 11.10.2016 under CAS)	
3.	Date of Birth	December 7, 1977	
4.	Education Qualification	Ph.D, (Chemical Engineering) IIT Roorkee Jointly with NCL, Pune.	Title: Influence of Surfactants on the Formation and Dissociation of Gas Hydrates in Fixed Bed Media
		M.Tech (Environmental Science and Engineering), PTU, Jalandhar	78.4%(Distinction)
		B.Tech (Chemical Engineering), PTU, Jalandhar	75.3%
5.	Work Experience	Teaching: 15 years and 7 months	
		Assistant Professor at Shaheed Bhagat Singh State Technical Campus (SBSSTC), Ferozepur	11 <sup>th</sup> October, 2001 to till date
		Research	3 years
		Dean Academics ( Affiliation and Approval )	11 <sup>th</sup> August, 2016 to till date
		Others: Society of Extra-Curricular Activities (SECA)	31 <sup>st</sup> March, 2017 to till date
		Incharge Chemical Engineering Students Society (CHESS)	05 Years earlier and recently taken charge from Jan, 2016 to till date
		Incharge Time Table (CHE)	05 Years
		Incharge Block C	02 Years and 6 Months
		Training and Placement Officer	01 Year and 9 Months
		Editor English section for Institute Magazine Manahan	26 <sup>th</sup> February, 2016 to Till Date

	Co- Coordinator S	Society fo	r Extra	01 Year, 01 Month and 2 Weeks
	Curricular Activity	(SECA)		

6.	Area of Specialization	<ul> <li>Non Conventional Energy like Gas Hydrates, Shale Gas, Shale Oil etc.</li> <li>Microbial Enhanced recovery of oil</li> <li>Seaweeds as a Source of Energy</li> <li>Transportation and storage of Natural gas</li> <li>Waste to Energy</li> <li>Hydrogen Storage</li> <li>Flow through Porous Media</li> <li>Flow Assurance</li> <li>Carbon dioxide Capture</li> <li>Microbiology</li> </ul>						
7. Subjects Teaching at		Graduate Level  Post Graduate Level		<ul> <li>Energy Engineering</li> <li>Chemical Engineering Thermodynamics</li> <li>Fluid Flow</li> <li>Mechanical Operations</li> <li>Chemical Process Industries</li> <li>Polymer Science &amp; Engineering</li> <li>Petroleum Refining Engineering</li> <li>Bio-Chemical Engineering</li> <li>Professional Skills</li> <li>Project Management</li> <li>Microbiology</li> <li>Environmental Engineering</li> </ul>				
				<ul> <li>Environment Impact and Assessment</li> <li>Water Pollution and Waste Water Treatment</li> <li>Air Pollution and Control</li> <li>Petrochemical Technology</li> </ul>				
8.	Total Number of Patent and Research	Patents	1	Papers Published	23	Commu nicated	Acce pted	
	(Annexure-A) (	Patent filed (Gas - Hydrates)	1	International Journals Book Chapter International Conferences National Conferences National Journal	8 2 3 13	2		

# 9. Academic Achievements and Awards

- I. Amit Arora, Pushpendra Kumar, Rajnish Kumar, Chandrajit Balomajumder, Swaranjit Singh Cameotra and Sukumar Laik, Award of EUR 100 by Springer and SSS NIRE for First Position by Presenting Paper Titled "Role of Rhamnolipid a Bio-Surfactant in Methane Hydrate Formation" at International Conference on Recent Advances in Bio-Energy Research (ICRABR-2015), March 14<sup>th</sup>-17<sup>th</sup>, 2015at Sardar Swaran Singh National Institution of the Renewable Energy, Kapurthala, Punjab, India.
- II. Amit Arora, Pushpendra Kumar, Asheesh Kumar, Rajnish Kumar Gaurav Bhattacharjee, and Chandrajit Balomajumder, Best Paper Award by presenting the poster paper titled "Carbon Dioxide Hydrate Formation in Fixed Bed and Stirred Tank Reactor System" in 6<sup>th</sup> World Renewable Energy Technology Congress, Aug 21<sup>st</sup>- 23<sup>rd</sup>, 2015,New Delhi, India.
- III. Amit Arora, Chandrajit Balomajumder and Swaranjit Singh Cameotra, First Prize for presenting poster entitled "Influence of Biosurfactants on Gas Hydrate Formation" at Chandigarh University on National Seminar on Sustainability of New & Renewable Energy A Present Scenario (SUNREAPS-2015), April 17<sup>th</sup>, 2015, Sponsored by Ministry of New & Renewable Energy, New Delhi.
- IV. Amit Arora, Pushpendra Kumar, Rajnish Kumar, and Chandrajit Balomajumder, Awarded Consolation Prize by presenting poster titled "Effects of Zeolites on Carbon dioxide Hydrate Formation", International Seminar on Nanotechnology in Conventional and Alternate Energy Systems a Global Status and Pathway, Aug 12<sup>th</sup>-13<sup>th</sup>,2013 at UPES Campus, Dehradun, India Conducted by Indian Oil, R&D, ONGC, CSIR India.
- V. Ranjeet Singh, Amit Arora, Gurmit Singh, Anand Kumar Tyagi,
  Award of EUR 200 by Springer and SSS NIRE for First Position
  by Presenting Poster Titled "Partial Replacement of Aggregates
  using Industrial and Agriculture Waste in Concrete

		Manufacturing" at International Conference on Recent Advances in				
		Bio-energy Research, Feb 25 <sup>th</sup> -27 <sup>th</sup> , 2016, Sardar Swaran Singh				
		National Institute of Renewable Energy, Kapurthala, Punjab, India.				
10	Short-Term Courses	Shale Gas & Oil				
	Attended	Recent Advances in Energy Technology				
		Analytical Techniques for Detection of Environmental Pollutants	2 week			
		Engineering Materials	1 week			
		Research Methodologies	1 week			
		Applied Soft Computing				
		Business and Soft Skill Development in Institutions				
		Multi-Criteria Optimization Tools in Research				
		Modern Sophisticated Analytical Techniques and their				
		Application in Pharmaceuticals				
		Intelligent Computational Techniques	1 week			
		Biotechnology and Biochemical Engineering				
		Strategic Management for Excellence	1 week			
		AutoCAD	1 week			
		Induction Programme for Faculty of Engineering Colleges	2 week			
		Total Quality Management and ISO 9000 Quality Systems	2 week			
11	Membership	Life Time Membership of Indian Society of Technical Education (ISTE)				
	of Professional bodies	Life Time Membership of Indian Institute of Chemical Engineers	(IIChE)			

## **PERSONAL DETAILS**

Mother's Name : Late Mrs.Sudrashna Kumari

Father's Name : Mr.T.R.Arora

Wife : Mrs Garima Arora (PGT Physics, KV-2 Firozpur Cantt.)

Language Known : English, Hindi, Punjabi

Permanent Address : C 3/4, Staff Colony SBSSTC, Ferozepur, Punjab, India(152004)

## **VERIFICATION**

It is certified that the above noted information is true and correct to the best of my knowledge and belief.

(Amit Arora) Date: 20<sup>TH</sup> October, 2016

#### Annexure-A

#### LIST OF PUBLICATIONS

## (A) PATENT FILED ( GAS HYDRATES )

1. Patent Filed (Application No.- 201611007370) by **Amit Arora**, Pushpendra Kumar, Asheesh Kumar, Rajnish Kumar, Chandrajit Balomajumder and Sukumar Laik on "Inhibition of Gas Hydrate Formation by a Novel Green Kinetic Inhibitor".

## (B) INTERNATIONAL JOURNALS

- Amit Arora, Pushpendra Kumar, Rajnish Kumar, Chandrajit Balomajumder, Anil Kumar Singh, Swaranjit Singh Cameotra, B. Santhakumari, and Sukumar Laik,(2016) "Biosurfactant as a Promoter of Methane Hydrate Formation: Thermodynamic and Kinetic Studies", Scientific Reports- Nature Journal, 6, 20893. DOI: 10.1038/serp 20893
- 3. Amit Arora, Pushpendra Kumar, Asheesh Kumar, Gaurav Bhattacharjee, Pushpendra Kumar and Chandrajit Balomajumder, (2016) "Effect of Different Fixed Bed Media on the Performance of Sodium Dodecyl Sulfate for Hydrate based Carbon dioxide Capture", Journal of Material and Design, Vol. 90, pp. 1186-1191.
- Amit Arora, Pushpendra Kumar, Rajnish Kumar, Swaranjit Singh Cameotra, and Chandrajit Balomajumder,(2014) "Effects of Biosurfactants on Gas Hydrates," *Journal of Petroleum and Environmental Biotechnology*, Vol. 5, No 2, pp. 170. doi:10.4172/2157-7463.1000170
- 5. Amit Arora, Chandrajit Balomajumder and Swaranjit Singh Cameotra, (2015) "Natural Gas Hydrate as an Upcoming Resource of Energy", Journal of Petroleum and Environmental Biotechnology, Vol. 6, No. 1, pp. 199.
- Amit Arora, Chandrajit Balomajumder and Swaranjit Singh Cameotra, (2015)
   "Techniques for Exploitation of Gas Hydrate (Clathrates) an Untapped Resource of Methane Gas", Journal of Microbial & Biochemical Technology, Vol. 7, No. 2, pp. 108-111.

- 7. Amit Arora, Chandrajit Balomajumder and Swaranjit Singh Cameotra, (2015) "Natural Gas Hydrate (Clathrates) as an Untapped Resource of Natural Gas," Journal of Petroleum and Environmental Engineering, Vol. 6, No.4, pp. 234.
- 8. Amit Arora, Chandrajit Balomajumder and Swaranjit Singh Cameotra,(2015) "Field Testing of Gas Hydrates- An Alternative to Conventional Fuels," *Journal of Petroleum and Environmental Engineering*, Vol. 6, No. 5, pp 235.
- 9. Amit Gupta, Amit Arora, Minakshi, Alka Sehgal and Rakesh Sehgal,(2012) "Nanotechnology and Its Applications in Drug Delivery A Review," *International Journal of Medicine and Molecular Medicine*, WMC0028672012

## (C) NATIONAL JOURNALS

10. Gurmit Singh, Amit Arora, Ranjeet Singh and Anand K. Tyagi, (2016) "Utilization of Agricultural Waste Material as Aggregates in Partial Replacement of Coarse Aggregates in the Conventional Concrete", Journal of Biofuel and Bioenergy, 2(1):67-72, DOI: 10.5958/2454-8618.2016.00004.3.

## (D) SUBMITTED IN JOURNALS

- 11. Amit Arora, Pushpendra Kumar, Rajnish Kumar, Chandrajit Balomajumder, Anil Kumar Singh, Swaranjit Singh Cameotra, B. Santhakumari, Sukumar Laik, "Lipopeptide Biosurfactant namely Surfactin acting as a Promoter of Methane Hydrate Formation in Fixed Bed Silica Gel", Frontiers In Microbiology, section Microbiotechnology, Ecotoxicology and Bioremediation. Recent developments in Biosurfactants...
- 12. Amit Arora, Pushpendra Kumar, Rajnish Kumar, Chandrajit Balomajumder, Anil Kumar Singh, Swaranjit Singh Cameotra, B. Santhakumari, Sukumar Laik, "Rhamnolipids Promoting Methane Hydrates Formation in Fixed Bed Porous Silica Gel System", Frontiers In Microbiology, section Microbiotechnology, Ecotoxicology and Bioremediation. Recent developments in Biosurfactants.

#### (E) BOOK CHAPTER PUBLISHED

- 13. Amit Arora, Pushpendra Kumar, Rajnish Kumar, Anil Kumar Singh, Swaranjit Singh Cameotra, Chandrajit Balomajumder and Sukumar Laik, (2016) "Role of Rhamnolipid a Bio-Surfactant in Methane Hydrate Formation Kinetics", Springer Proceeding in Energy of International Conference on Recent Advances in Bio-Energy Research (ICRABR), at Sardar Swaran Singh National Institution of the Renewable Energy, Kapurthala, Punjab, India, pp 333-343, ISBN 978-81-322-2771-7.
- 14. Navneet Sood, Rajeev Kumar Garg, M.K Jha and Amit Arora, (2013) "Treatment of Leachate by using Natural Adsorbents," *Recent Advances in Bioenergy Research*, Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala, Vol. 2, pp. 339-346, ISBN 978-81-927097-1-0.

#### (F) PUBLICATION IN INTERNATIONAL CONFERENCE PROCEEDING

- 15. Amit Arora, Pushpendra Kumar Anil Kumar Singh, , Rajnish Kumar, Swaranjit Singh Cameotra, Chandrajit Balomajumder and Sukumar Laik,(2014) "Role of Surfactin a Bio-Surfactant in Natural Gas Hydrate Formation Kinetics", Proceedings of International Conference on Chemical Engineering- Emerging Dimensions and Challenges Ahead & Indo Japanese Symposium on Separation Technology for Green Environment, (CHEMCON), Dec 27<sup>th</sup>-30<sup>th</sup>, 2014,at Punjab University, Chandigarh, India.
- 16. Amit Arora, Pushpendra Kumar, Asheesh Kumar, Rajnish Kumar, Chandrajit Balomajumder and Maneet Kaur,(2014) "Influence of Zeolites on Carbon dioxide Hydrate Formation", Proceedings of the 8<sup>th</sup> International Conference on Gas Hydrate (ICGH), July 28<sup>th</sup> Aug 1<sup>st</sup>, 2014, Beijing, China.
- 17. Amit Arora, Rajeev Garg, Ashish Koundle and Maneet, Rajat, (2012) "Supercritical Fluid Carbon dioxide Sterilization Technology for the Treatment of Health Care Waste: a review", an International Conference on Biomedical Engineering and Assistive Technologies (BEATS), Department of Instrumentation and Control Engineering, Dr B.R. Ambedkar National Institute of Technology Dec 6<sup>th</sup>-7<sup>th</sup>, 2012, Jalandhar, India, pp. 731-735.

## (G) PUBLICATION IN NATIONAL CONFERENCE PROCEEDING

- 18. Gurmit Singh, Shivani Tyagi, Rekha Sharma and Amit Arora, "Utilization of Waste Tyres as Aggregates in Partial Replacement of Coarse Aggregates in the Conventional Concrete" Proceedings of 3<sup>rd</sup> Inter-Disciplinary National Conference on Frontiers in Material Research and Application (FMRA), Oct 27<sup>th</sup>-28<sup>th</sup>, 2016, SBSSTC, Ferozepur, India, pp.115-118.
- 19. Ranjeet Singh, Shivani Tyagi, Garima Jain and **Amit Arora**, "Partial Replacement of **Aggregates using Coconut Coir in Concrete Manufacturing**" Proceedings of 3<sup>rd</sup> Inter-Disciplinary National Conference on Frontiers in Material Research and Application (FMRA), Oct 27<sup>th</sup>-28<sup>th</sup>, **2016**, SBSSTC, Ferozepur, India, pp.100-102
- 20. Amandeep Kaur, Sangeeta Sharma, Shivangi Jha and **Amit Arora**, (2016) "**Novel Drug Vehicles for Cancer**" Proceedings of 3<sup>rd</sup> Inter-Disciplinary National Conference on Frontiers in Material Research and Application (FMRA), Oct 27<sup>th</sup>-28<sup>th</sup>, **2016**, SBSSTC, Ferozepur, India, pp.86-88
- 21. Amit Arora, and Navdeep Kaur "Various Aspects Of Seaweeds" Proceedings of National Conference on Energy, Economy and Environment Energy 2016, Dec 16<sup>th</sup>-17<sup>th</sup>, 2016, NIT Calicut, India, pp.285-288
- 22. Rajat Sehgal, Sanjeev K. Bhardwaj, **Amit Arora** and Akash Deep, (2015) "**Evaluation** of **Zeolitic Imidazolate Framework–8 for Desalination of Water**" *Proceedings of 2<sup>nd</sup> National Conference on Frontiers in Material Research and Application (FMRA)*, Dec 24th, 2015, SBSSTC, Firozpur, India, pp.52-53
- 23. Manoj Kumar, Jitender Paul Sharma and Amit Arora, (2015) "Band Gap Measurement of PVA based Polymer Electrolytes" Proceedings of 2<sup>nd</sup> National Conference on Frontiers in Material Research and Application (FMRA), Dec 24th, 2015, SBSSTC, Firozpur, India, pp.97-99
- 24. Manoj Kumar and **Amit Arora**, (2015) "**Advances in Polymer Gel Electrolytes**" *Proceedings of National Conference on Advances in Manufacturing Systems Technology*, *Materials and Management (CAMS-2015)*, Dec 23<sup>rd</sup>-24<sup>th</sup>, 2015, SBSSTC, Firozpur, India, pp.119-121.
- 25. Amit Arora, Vikash Kumar Saw and Chandrajit Balomajumder, (2014) "Effects of Surfactants on Gas Hydrate Formation- A Review," Proceedings of National

- Conference on Advances in Manufacturing Systems Technology, Materials and Management (CAMS-2014), Sep 05<sup>th</sup>-06th, 2014, SBSSTC, Firozpur, India, pp.729.
- 26. Amit Arora, Rajeev K Garg, Asish Koundle, Rajat and Rakesh Sehgal, (2012) "Sources and Treatment Techniques of Hospital Waste Management: A Review," *Proceedings of National Conference on Green Chemistry*, Sep 18<sup>th</sup>-19<sup>th</sup>, 2012, Department of Chemistry SRM University, NCR Campus, Gaziabad, U.P- 201204, pp. 143-149.
- 27. Amit Arora, Vivek Soi, Veerpal Soi, and Meenakshi Veer, (2012) "E-Waste Treatments", *Proceedings of National Conference on Recent Advancement and Innovations in Science and Engineering (RAISE)*, Jan 06<sup>th</sup>-07<sup>th</sup>, 2012, Gru Ram Das Institute of Engineering and Technology, Bhatinda, Punjab, India, Vol. 1, pp. 246-253.
- 28. Vaishali Goyal, **Amit Arora**, Minakshi Veer and Amit Gupta, (2012) "**Hazardous** Wastes-Detrimental to the Environment", *Proceedings of National Conference on Recent Advancement and Innovations in Science and Engineering (RAISE)* Jan 06<sup>th</sup>-07<sup>th</sup>, 2012, Gru Ram Das Institute of Engineering and Technology, Bhatinda, Punjab, India, Vol. 1, pp. 268-270.
- 29. Lalit Sharma and Amit Arora, (2002) "Synthesis of Sugar based Bio-degradable Surfactants to Trap Organic Pollutants from Waste Water", *Proceedings of National Seminar on Science and Technology in Present Prospective*, Oct 26<sup>th</sup>, 2002, SBSCET, Firozpur, pp. 173-178.
- 30. Lalit Sharma, **Amit Arora** and MK Jha,(2002) "**Membrane Separation Technology**", *Proceedings of National Seminar on Science and Technology in Present Prospective on* Oct 26<sup>th</sup>, 2002, SBSCET, Firozpur, pp. 179-182.

## (H) CHAIRMANSHIPS AT INTERNATIONAL CONFERENCE

- 31. Chairmanship of Session, on Algal Technologies, (2016) at **International Conference** on Algal Technologies, July 14<sup>th</sup>-16<sup>th</sup>,2016, organized by Sevas Educational Society, Andhra Pradesh, India at Apeejay Institute of Management and Technical Campus, Jalandhar, Punjab, India.
- 32. Chairmanship of Session on Advanced Nutaceuticals, Functional Food and Dietary Supplements, (2016) at International Conference, organized by Sevas Educational

- Society, July 14<sup>th</sup>-16<sup>th</sup>,2016, Andhra Pradesh, India at Apeejay Institute of Management and Technical Campus, Jalandhar, Punjab, India.
- 33. Chairmanship of Technical Session, (2016) at National Conference on **Advances in** Chemical and Environment Engineering, April 22<sup>nd</sup>-23<sup>rd</sup>, 2016, Dr B.R. Ambedkar National Institute of Technology, Jalandhar, India.
- 34. Chairmanship of Session Energy Engineering, (2014) at International Conference on Chemical Engineering- Emerging Dimensions and Challenges Ahead & Indo Japanese Symposium on Separation Technology for Green Environment, (CHEMCON) Dec 27<sup>th</sup>-30<sup>th</sup>,2014, Chandigarh Regional Centre Indian Institute of Chemical Engineers in Collaboration with Dr. SS Bhatnagar University Institute of Chemical Engineering & Technology Panjab University, Chandigarh, India.
- 35. Chairmanship of Session Chemical Thermodynamic, (2014) at International Conference on Chemical Engineering- Emerging Dimensions And Challenges Ahead & Indo Japanese Symposium on Separation Technology For Green Environment, (CHEMCON), Dec 27<sup>th</sup>-30<sup>th</sup>,2014, Chandigarh Regional Centre Indian Institute of Chemical Engineers in collaboration with Dr. SS Bhatnagar University Institute of Chemical Engineering & Technology Panjab University, Chandigarh, India.
- 36. Co-Chairmanship of Session Environmental Science & Engineering, (2014) at International Conference on Chemical Engineering- Emerging Dimensions And Challenges Ahead & Indo Japanese Symposium on Separation Technology For Green Environment, (CHEMCON), Dec 27<sup>th</sup>-30<sup>th</sup>,2014, Chandigarh Regional Centre Indian Institute of Chemical Engineers in collaboration with Dr. SS Bhatnagar University Institute of Chemical Engineering & Technology Panjab University, Chandigarh, India.

#### (I) INVITED TALKS

- 37. **Amit Arora**,(2017),"**Future Prospectives of Gas Hydrates**" March 20<sup>th</sup> 2017, at Atal Bihari Vajpayee Govt. Institute of Engineering & Technology Pragtinagar, Shimla.
- 38. **Amit Arora**,(2017), "**Natural Gas Hydrates**" For National conference on Latest Innovations in Applied Science, March 18<sup>th</sup> 2017, at Aryan Group of colleges, Rajpura.

- 39. Amit Arora,(2017),"Domestic radiation as source of indoor radon" in National Seminar on Recent Trends in Plant and Environmental Sciences, February 10<sup>th</sup>, 2017 at Guru Nanak Dev University, Amritsar.
- 40. Amit Arora,(2016), "Various Aspects of Sea Weeds in the International Conference on Algal Technologies", organized by Sevas Educational Society, Andhra Pradesh, India, July 14<sup>th</sup>-16<sup>th</sup>,2016, at Apeejay Institute of Management and Technical Campus, Jalandhar, Punjab.
- 41. Amit Arora, (2016), Current Techniques to Exploit Gas Hydrates in Industry Institute Interaction Programme on Organized by Department of Chemical Engineering in Association with Indian Institute of Chemical Engineers, March 6<sup>th</sup>,2016, Doaba Regional Centre at Dr. B.R.Ambedkar NIT Jalandhar, Punjab.
- 42. **Amit Arora**, (2011), "**Supported Liquid Membrane for the Separation of Nd**<sup>3+</sup> **ions**," Expert Lecture delivered during International Conference on Recycling and Reuse of Materials ICRM-2011, Aug 05<sup>th</sup>-07<sup>th</sup>,2011, Mahatma Gandhi University, Kerela.

## (J) PAPER/POSTER PRESENTED IN INTERNATIONAL CONFERENCES

- 43. Amandeep Kaur, Sangeeta Sharma and Amit Arora, Poster Presentation titled "Fabrication Methodolgy of nanoparticles" at 2<sup>nd</sup> International Conference on Harnessing Engineering, Technology & Innovation for Sustainable Growth (HETIS 2016), October 1<sup>st</sup>,2016, Dr. S.S. Bhatnagar University Institue of Chemical Engineering & Technology, Panjab University, Chandigarh India.
- 44. Ranjeet Singh, Amit Arora, Gurmit Singh and Anand Kumar Tyagi, Best Poster Award (2016) "Partial Replacement of Aggregates using Industrial and Agriculture Waste in Concrete Manufacturing", International Conference on Recent Advances in Bioenergy Research, Feb 25<sup>th</sup>-27<sup>th</sup>,2016, Sardar Swaran Singh National Institute of Renewable energy, Kapurthala, Punjab, India.
- 45. Gurmit Singh, Amit Arora, Ranjeet Singh and Anand Kumar Tyagi, "Utilization of Industrial and Agricultural Waste Material as Aggregates in Partial Replacement of Coarse Aggregates in the Conventional Concrete" 2<sup>nd</sup> International Conference on Recent Advances in Bioenergy Research, Feb 25<sup>th</sup>-27<sup>th</sup>,2016, Sardar Swaran Singh National Institute of Renewable energy, Kapurthala, Punjab, India.

- 46. Amit Arora, Asheesh Kumar, Rajnish Kumar Gaurav Bhattacharjee, Pushpendra Kumar and Chandrajit Balomajumder, Best Paper Award (2015) "Carbon dioxide Hydrate Formation in Fixed Bed and Stirred Tank Reactor System," 6<sup>th</sup> World Renewable Energy Technology Congress, Aug 21<sup>st</sup>-23<sup>rd</sup>, 2015, New Delhi, India.
- 47. Amit Arora, Swaranjit Singh Cameotra, Rajnish Kumar, Pushpendra Kumar, Chandrajit Balomajumder and Sukumar Laik (2014) "Role of Rhamnolipid a Bio-Surfactant in Methane Gas Hydrate Formation Kinetics," 1<sup>st</sup> International Conference on Recent Advances in Bioenergy Research, Mar 14<sup>th</sup>-17<sup>th</sup> 2015, Sardar Swaran Singh National Institute of Renewable energy, Kapurthala, Punjab, India.
- 48. Amit Arora and Chandrajit Balomajumder (2014) "Gas Hydrates as a Boon to Mankind," *Theoretical Chemistry Symposium*, Dec 18<sup>th</sup>-21<sup>st</sup>,2014. NCL Pune, Indian Institute of Science Education and Research, Pune, India.
- 49. Amit Arora and Chandrajit Balomajumder (2014) "Gas Hydrates as Novel Resource of Energy," *International Conference on Structural and Inorganic Chemistry*, Dec 4<sup>th</sup> 5<sup>th</sup>, 2014, IISER Pune, NCL Pune, and SP Pune University, India.
- 50. Amit Arora, Pushpendra Kumar, Rajnish Kumar, Chandrajit Balomajumder, Swaranjit Singh Cameotra and Sukumar Laik, (2014) "Role of Biosurfactants in Natural Gas Hydrates Formation Kinetics", 9<sup>th</sup> International Methane Hydrate R&D (IMHRD) Workshop CSIR, Nov 9<sup>th</sup>-12<sup>th</sup>,2014, National Geophysical Research Institute, Hyderabad, India.
- 51. Amit Arora, Maneet Kaur, Ashish Koundle and Sabu Thomas, (2014) "Biodegradable Composites from Natural Rubber, Coir Pith and Isora Fibre as Various Biomaterials", International Conference on Polymeric Biomaterials, Bioengineering & Biodiagnostics, Oct 27<sup>th</sup>-30<sup>th</sup>,2014.ENEA, Italy, IIT Delhi, India.
- 52. Amit Arora, Pushpendra Kumar, Asheesh Kumar, Rajnish Kumar, Maneet Kaur and Chandarjit Balmajumder, (2014), "Influence of Zeolites on Carbon dioxide Hydrates Formation," *Proceedings of the 8th International Conference on Gas Hydrates ICGH8* July 28<sup>th</sup>-Aug 1<sup>st</sup> 2014, Beijing, China.
- 53. Amit Arora and Chandrajit Balomajumder, (2014), "Gas Hydrates as a Problem for Oil and Gas Pipelines," Second International Conference on Innovative Trends in Applied Physical, Chemical, Mathematical, Statistical Sciences and Emerging, Energy

- Technology for Sustainable Development" (APCMSET-2014) Organized by Social Welfare Foundation in Association with Krishi Sanskriti, July 19<sup>th</sup>-20<sup>th</sup>,2014, Jawaharlal Nehru University, New Delhi, India.
- 54. Amit Arora and Chandrajit Balomajumder, (2014) "Role of Porous Media in the Formation of Gas Hydrates," Second International Conference on Innovative Trends in Applied Physical, Chemical, Mathematical, Statistical Sciences and Emerging, Energy Technology for Sustainable Development (APCMSET-2014) Organized by Social Welfare Foundation in Association with Krishi Sanskriti, July 19<sup>th</sup> 20<sup>th</sup>,2014, Jawaharlal Nehru University, New Delhi, India.
- 55. Amit Arora and Chandrajit Balomajumder, (2014) "Gas Hydrates as Upcoming Source of Energy," Second International Conference on Innovative Trends in Applied Physical, Chemical, Mathematical, Statistical Sciences and Emerging, Energy Technology for Sustainable Development" (APCMSET-2014) Organized by Social Welfare Foundation in Association with Krishi Sanskriti, 19<sup>th</sup>-20<sup>th</sup>,July 2014, Jawaharlal Nehru University, New Delhi, India.
- 56. Amit Arora and Chandrajit Balomajumder, (2014) "Role of Surfactants in the Formation of the Gas Hydrates," Second International Conference on Innovative Trends in Applied Physical, Chemical, Mathematical, Statistical Sciences and Emerging, Energy Technology for Sustainable Development" (APCMSET-2014) Organized by Social Welfare Foundation in Association with Krishi Sanskriti, July 19<sup>th</sup>-20<sup>th</sup>,2014, Jawaharlal Nehru University, New Delhi, India.
- 57. **Amit Arora**, Pushpendra Kumar, Asheesh Kumar, Rajnish Kumar and Chandarjit Balmajumder, (2013) "Influence of Zeolites on Gas Hydrates Formation," *International Seminar on Nanotechnology an Alternate Energy System a Global Status Pathways*, Aug 12<sup>th</sup>-13<sup>th</sup> 2013, University of Petroleum & Energy Studies (UPES) Campus, Dehradun.
- 58. Amit Arora, Ashish Koundle, Maneet Kaur and Sabu Thomas, (2013) "The Effect of weight % Isora on the Mechanical Properties of Biodegradable Green Composites made from Natural Rubber, Coir Fibre and Isora Fibre," Asian Polymer Association Conference, Feb 21<sup>st</sup>-23<sup>rd</sup>,2013, Punjab University Chandigarh.

- 59. Amit Arora, Sreedevi Upadhyayula and Aditi, (2012) "Isopropylation of m-Cresol with Isopropyl Alcohol over Zeoloite Catalyst," International Conference on Sustainable Technologies for Environment in Process Industries & Indo-US Joint International Conference on Energy and Environment (CHEMCON), Dec 27<sup>th</sup>-30<sup>th</sup> 2012, organized by Dr B.R. Ambedkar National Institute of Technology, Jalandhar, India.
- 60. Kishori lal, Shamsher Rawat and Amit Arora, (2012) "Designing of Cement Slurry for High Pressure & High Temperature Gas and Oil Wells," International Conference on Sustainable Technologies for Environment in Process Industries & Indo-US Joint International Conference on Energy and Environment (CHEMCON), Dec 27<sup>th</sup>-30<sup>th</sup> 2012, Dr B.R. Ambedkar National Institute of Technology, Jalandhar, India.
- 61. Amit Arora and Rejeen Garg, (2012) "Supercritical Fluid like Carbon dioxide for the Treatment of Hospital Waste," an International Conference on Biomedical Engineering and Assistive Technologies (BEATS), Dec 06<sup>th</sup>-07<sup>th</sup>,2012, Dr B.R. Ambedkar National Institute of Technology, Jalandhar, India
- 62. Amit Arora and Shashi Kumar, (2012) "Application of Digital Storytelling in Higher Education," Role of Technology in Enhancing the Quality of Higher Education (ICRT), Oct 26<sup>th</sup>-27<sup>th</sup> 2012, Kanya Maha Vidyalaya, Jalandhar, Punjab, India.
- 63. Rajeev Kumar Garg, Amit Arora and Raj Kumar, (2012) "Role of Communication Technology in Enhancing the Accessibility of Higher Education," Role of Technology in Enhancing the Quality of Higher Education. (ICRT), Oct 26<sup>th</sup>-27<sup>th</sup> 2012, Kanya Maha Vidyalaya, Jalandhar, Punjab, India.
- 64. Amit Arora, Raj Kumar and Ashish Koundle, (2012) "Health Care Waste Management: a Thrust Public Health Problem," an International Conference on Chemistry for Sustainable Development and Innovations, Chemical Constellation Cheminar, Sep 10<sup>th</sup>-12<sup>th</sup> 2012, Dr B.R. Ambedkar National Institute of Technology, Jalandhar, India.
- 65. Raj Kumar, Lalit Sharma, Rajiv Garg, Subhash and Amit Arora, (2012) "Adsorption of Congo Red on Fly Ash," an *International Conference on Chemistry for Sustainable Development and Innovations*, *Chemical Constellation Cheminar*, Sep 10<sup>th</sup>-12<sup>th</sup> 2012, Dr B.R. Ambedkar National Institute of Technology, Jalandhar, India.

- 66. Amit Gupta, Amit Arora, Menakshi and Rakesh Sehgal, (2012) "Nanotech Based Drug Delivery System and Nanobiotechnology," International Conference on Frontiers in Nanoscience, Nanotechnology and their Application, Feb 16<sup>th</sup>-18<sup>th</sup> 2012, Punjab university, Chandigarh.
- 67. Amit Arora, (2011) "Modeling and Simulation of CSTR (Non- Isothermal)," *International Conference on Advances in Modeling Optimization and Computing AMOC-2011*, Dec 05<sup>th</sup>-07<sup>th</sup> 2011, Indidn Institute of Technology, Roorkee.
- 68. Amit Arora, (2011) "Modeling and Simulation of Batch Reactor (Non Isothermal)," International Conference on Advances in Modeling Optimization and Computing AMOC-2011, Dec 05<sup>th</sup>-07<sup>th</sup> 2011, Indidn Institute of Technology, Roorkee.
- 69. Amit Arora, Rajeev Garg, Rohit Mehra and Anand Kumar Tyagi, (2011) "Measurement of Indoor Radon Concentration in the Dwellings of Bathinda District of Punjab from June August 2010," International Conference on Recycling and Reuse of Materials ICRM-2011, Aug 05<sup>th</sup>-7<sup>th</sup> 2011, Mahatma Gandhi University, Kerela.
- 70. Amit Arora, Jasbir Singh, Charanjeet Rai, Harpreet Sethi and JS Gill, (2011) "Supported Liquid Membrane for the Separation of Cu<sup>2+</sup> ions," *International Conference on Recycling and Reuse of Materials ICRM-2011*, Aug 05<sup>th</sup>-7<sup>th</sup> 2011, Mahatma Gandhi University, Kerela.
- 71. Amit Arora, Manish Gupta, Ishant Chauhan and Pargat Singh, (2011) "Methane Hydrates in Marine Sediments: Future Potential Source of Energy," *International Conference on Recycling and Reuse of Materials ICRM-2011*, Aug 05<sup>th</sup>-7<sup>th</sup> 2011, Mahatma Gandhi University, Kerela.
- 72. **Amit Arora**, Garima Arora and Shashi Kumar, (2011) "**Polymeric Solid Waste**," *International Conference on Recycling and Reuse of Materials ICRM-2011*, Aug 05<sup>th</sup>-7<sup>th</sup> 2011, Mahatma Gandhi University, Kerela.
- 73. Amit Arora, Jasbir Singh, Charanjeet Rai, Harpreet Sethi and JS Gill, (2011) "Supported Liquid Membrane for the Separation of Nd<sup>3+</sup> ions" International Conference on Recycling and Reuse of Materials ICRM-2011, Aug 05<sup>th</sup>-7<sup>th</sup> 2011, Mahatma Gandhi University, Kerela.
- 74. Amit Arora, Rajeev Garg and Anand Kumar Tayagi, (2010) "Measurement of Indoor Radon Concentration in the Dwelling of Bathinda District for the Period of March-

- **May2010,**" *Enviromental Challenges : a Global Concern*, Oct 15<sup>th</sup>-16<sup>th</sup> 2010, Kanya Maha Vidyalya, Jalandhar.
- 75. Deepankar Chattopadhay, Rakesh Chander and Amit Arora, (2003) "Review of TLCP Polymer," *International Conference on CAD, CAM, ROBOTICS and Autonomous Factories (INCARF)*, Aug 11<sup>th</sup>-13<sup>th</sup>, 2003, Indidn Institute of Technology, Delhi.

## (K) PAPER/POSTER PRESENTED IN NATIONAL CONFERENCES

- 76. Amit Arora, and Navdeep Kaur (2016) "Various Aspects Of Seaweeds" Proceedings of National Conference on Energy, Economy and Environment Energy 2016, December 16<sup>th</sup>-17<sup>th</sup>, 2016, NIT Calicut, India.
- 77. Gurmit Singh, Shivani Tyagi, Rekha Sharma and Amit Arora,(2016) Poster Presentation titled "Utilization of Waste Tyres as Aggregates in Partial Replacement of Coarse Aggregates in the Conventional Concrete" Proceedings of 3<sup>rd</sup> Inter-Disciplinary National Conference on Frontiers in Material Research and Application (FMRA), October 27<sup>th</sup>-28<sup>th</sup>, 2016, SBSSTC, Ferozepur, India.
- 78. Ranjeet Singh, Shivani Tyagi, Garima Jain and Amit Arora,(2016) Poster Presentation titled "Partial Replacement of Aggregates using Coconut Coir in Concrete Manufacturing" Proceedings of 3<sup>rd</sup> Inter-Disciplinary National Conference on Frontiers in Material Research and Application (FMRA), October 27<sup>th</sup>-28<sup>th</sup>, 2016, SBSSTC, Ferozepur, India.
- 79. Amit Arora, Prabhjot Kaur and Naveen (2016) "Production of Biopesticides Namely Trichoderma Viride, Beauveria Bassiana And Verticillium Lecanii" *National Conference on Advances in Chemical and Environment Engineering*, April 22<sup>nd</sup> -23<sup>rd</sup>, 2016, Dr B.R. Ambedkar National Institute of Technology, Jalandhar, India..
- 80. Abhishek Punj, Mohit Sehgal, Gulshan Kumar and Amit Arora (2016) "Production of Biofertilizers Namely Rhizobium and Azotobacter for Nitrogen Fixation and Bacillus, Pseudomonas and Aspergillus for Phosphorus Solubilization" National Conference on Advances in Chemical and Environment Engineering, April 22<sup>nd</sup> -23<sup>rd</sup>, 2016. Dr B.R. Ambedkar National Institute of Technology, Jalandhar, India.
- 81. Rajat Sehgal, Sanjeev K. Bhardwaj, Amit Arora, Akash Deep, (2015) "Evaluation of Zeolitic Imidazolate Framework-8 for Desalination of Water" 2<sup>nd</sup> National Conference

- on Frontiers in Material Research and Application (FMRA), SBSSTC, Dec 24<sup>th</sup>, 2015, Firozpur, India.
- 82. Manoj Kumar and Amit Arora, (2015) "Synthesis and Characterization of PVA based Polymer Gel Electrolyte" 2<sup>nd</sup> National Conference on Frontiers in Material Research and Application (FMRA), Dec 24<sup>th</sup>, 2015, SBSSTC, Firozpur, India.
- 83. **Amit Arora** and Gaurav. "Gas Hydrates Perspective" 2<sup>nd</sup> National Conference on Frontiers in Material Research and Application (FMRA), Dec 24<sup>th</sup>, 2015, SBSSTC, Firozpur, India,
- 84. Manoj Kumar and **Amit Arora**, (2015) "**Advances in Polymer Gel Electrolytes**" *National Conference on Advances in Manufacturing Systems Technology, Materials and Management (CAMS-2015)*, Dec 23<sup>rd</sup>-24<sup>th</sup>, 2015, SBSSTC, Firozpur, India.
- 85. Amit Arora, Chandarjit Balmajumder and Swarnjit Singh Cameotra, (2015) "Effects of Biosurfactants on Gas Hydrate," National Seminar on Sustainability of New & Renewable Energy. A Present Scenario- SUNREAPS, April 17<sup>th</sup>, 2015, Chandigarh University Sponsored by, Ministry of New & Renewable Energy, New Delhi, India.
- 86. Amit Arora, Chandarjit Balmajumder and Rajnish Kumar, (2014) "Influence of Surfactants on Gas Hydrates Formation," National Seminer on Recent Advances in Pollution and Abatement, Feb 14<sup>th</sup>-15<sup>th</sup>,2014, MIET, Meerut, India.
- 87. Davinder, Amit Arora, Sachin Kumar and Anand Kumar Tyagi, (2012) "Sources and Techniques of Handling Agro Waste," *National Conference on Recent Advances in Bioenergy Research*, Dec 07<sup>th</sup>-08<sup>th</sup>,2012, Sardar Swaran Singh National Institution of the Renewable Energy, Kapurthala, Punjab, India.
- 88. Bhajan Dass, Dheeraj Sood, Sangeeta Sharma and Amit Arora, (2012) "A Study on Treatment Strategies for the Effluents of Recycled Waste Paper Mills of Malwa Region of Punjab," Conference on Technological Advancements in Chemical and Environment Engineering TACEE-2012, Mar 21<sup>st</sup>-24<sup>th</sup>, 2012, BITS, Pilani, Rajasthan, India.
- 89. Amit Arora, Rohit Mehra, Rajeev Garg, Anand Kumar Tyagi, Diwakar Kandwal and Mithlesh Raina, (2012) "Radiation Pollution in Human Habitat," Conference on Technological Advancements in Chemical and Environment Engineering TACEE-2012, Mar 21st-24th, 2012, BITS, Pilani, Rajasthan, India.

- 90. Mandeep Singh, Supriya, Kshama, Rajwant Kaur, Chetan Sharma and Amit Arora, (2012) "Production of Green Diesel Through Transesterification of Waste Cooking Oil," Conference on Technological Advancements in Chemical and Environment Engineering TACEE-2012, Mar 21st-24th, 2012, BITS, Pilani, Rajasthan, India.
- 91. **Amit Arora**, Rajeev Kumar Garg, Sangeeta Sharma, Bhavna Wasson and Sandeep Kaur, (2012) "Conversion of Biomass into Biocoal," *National Conference on Material Science Application in energy and Environment*, Mar 02<sup>nd</sup>-03<sup>rd</sup>,2012 DAV college Jalandhar, Punjab, India.
- 92. **Amit Arora**, Bhavna Wasson, Ashish Koundle and Mamta Arora, (2012) "**Fabrication Technologies of Biodegradable Nanoparticles,**" *National Conference on Material Science Application in Energy and Environment*, Mar 02<sup>nd</sup>-03<sup>rd</sup>,2012, DAV college Jalandhar, Punjab, India.
- 93. Mamta Arora, Amit Arora, Wasson and Bhavna, (2012) "Role of Statistics in Drug Development in 21st Cetury," *National Conference on Advances and Applications in Statistics*, Feb 20th- 21st 2012, Punjab University, Chandigarh, Punjab, India.
- 94. Amit Arora, Rajeev Garg, Rohit Mehra and Anand Kumar Tyagi, (2012) "Statistical Model of Lifetime Fatality Risk due to Indoor Radon Concentration of Bathinda Distt. for period Dec 2010 to Feb 2011," National Conference on Advances and Applications in Statistics, Feb 20<sup>th</sup>- 21<sup>st</sup>,2012, Punjab University, Chandigarh, Punjab, India.
- 95. Amit Arora, Vivek Soi, Veerpaul Soi and Meenakshi Veer, (2012) "E-waste Treatments Recent Advancements and Innovations in Science and Engineering," *RAISE*, Jan 06<sup>th</sup>-07<sup>th</sup>,2012, Gru Ram Das Institute of Engineering and Technology, Bathinda, Punjab, India.
- 96. Vaishali Goyal, Amit Arora, Meenakshi Veer and Amit Gupta, (2012) "Hazardous Wastes- Detrimental to the Environment Recent Advancements and Innovations in Science and Engineering," (*RAISE*), Jan 06<sup>th</sup>-07<sup>th</sup>,2012, Gru Ram Das Institute of Engineering and Technology, Bathinda, Punjab, India.
- 97. Amit Arora, Rajeev Kumar Garg, Rohit Mehra and Anand Kumar Tyagi, (2010) "Measurement of Indoor Radon Concentration in the Dwellings of Bathinda District of Punjab for the period September-November 2010," WMR-2011 National

- Conference on Waste Management and Recycling, Dec 09<sup>th</sup>-10<sup>th</sup> 2011, SLIET, Longoval, Punjab, India.
- 98. Amit Arora and Lalit Sharma, (2002) "Synthesis of Sugar Based Biodegrable Surfactance to Trap Organic Pollutants," National Seminar on Science & Technology in Present Perspectives, Oct 26<sup>th</sup> 2002, SBSCET Ferozepur, Punjab, India on.
- 99. Amit Arora and Lalit Sharma, (2002) "Membrain Separation Technology," National Seminar on Science & Technology in Present Perspectives, Oct 26<sup>th</sup> 2002, SBSCET, Ferozepur, Punjab, India.

## (L) PAPER/POSTER PRESENTED IN STATE CONFERENCES

- 100. Amit Arora, Bhavna Wasson and Rakesh Sehgal, (2012) "Microorganism and Biodegradable Polymers as a Source of Nano Particles for Target Drug Delivery", 15<sup>th</sup> Punjab Science Congress, *Science in the 21<sup>st</sup> century*, Feb 07<sup>th</sup>-09<sup>th</sup>,2012, GNDU, Amritsar, Punjab, India.
- 101. Amit Arora and Ashish Koundle, (2012) "Exploitation of Methane Clatharates as Future Energy Resource," 15<sup>th</sup> Punjab Science Congress, *Science in the 21<sup>st</sup> century*, Gru Nanak Dev University, Feb 07<sup>th</sup>-09<sup>th</sup>,2012, Amritsar, Punjab, India.

#### (M) M.TECH THESIS GUIDED

- 1. Davinder Singh, Titled: Biogas Production from Water Hyacinth, Thesis awarded February, 2014.
- Gurmit Singh, Titled: Utilization of Industrial and Agricultural Waste Material as Aggregate in Partial Replacement of Coarse Aggregates in the Conventional Concrete. Thesis awarded June, 2016.
- 3. Ranjeet Singh, Titled: Partial Replacement of Aggregates using Industrial and Agricultural in Concrete Manufacturing. Thesis awarded June, 2016.
- 4. Naveen, Titled: Measurement of radioactive elements in the soil and water in the samples of Pathankot district, Thesis going on.

#### (L) Ph.D. THESIS.:

Amanpreet Kaur, Designing a noble technology for the treatment of textile waste water-Going on.

## (M) DETAILS OF SHORT TERM COURSES ATTENDED

S.No	Name of the Course	Sponsored By	Name of the organizing Institute	Department	Time Period	Duration
1.	Shale Gas & Oil	Ministry of Petroleum & Natural Gas, Govt. of India	Directorate General of Hydrocarbons (DGH)	Directorate General of Hydrocarbons (DGH)	Jan 28 <sup>th</sup> -29 <sup>th</sup> 2016	2 days
2.	Recent Advances in Energy Technology	TEQIP-II	Dr. B R Ambedkar National Institute of Technology, Jalandhar	Department of Chemical Engineering	June 02 <sup>nd</sup> -06 <sup>th</sup> 2014	5 days
3.	Analytical Techniques for Detection of Environmental Pollutants	TEQIP-II	SBSSTC Ferozepur	Department of Applied Science & Humanities	Dec 16 <sup>th</sup> -27 <sup>th</sup> 2013	2 weeks
4.	Engineering Materials	TEQIP	SBSSTC Ferozepur	Department of Applied Science & Humanities	Dec 17 <sup>th</sup> -21 <sup>st</sup> 2012	1 week
5.	Research Methodologies	TEQIP	SBSSTC Ferozepur	Department of Mechanical Engineering	Dec 3 <sup>rd</sup> -7 <sup>th</sup> 2012	1 week
6.	Applied Soft Computing	TEQIP	SBSCTC Ferozepur	Department of Electronics	Nov 26 <sup>th</sup> -30 <sup>th</sup> 2012	1 week
7	Business and Soft Skill Development in Institutions	MHRD	NITTTR Chandigarh	Media Centre/ Department	June 4 <sup>th</sup> -8 <sup>th</sup> 2012	1 week
8.	Multi-Criteria Optimization Tools in Research	AICTE	SBSSTC, Ferozepur	Department of Mechanical Engg.	May 21 <sup>st</sup> - June 1 <sup>st</sup> 2012	2 weeks
9.	Modern Sophisticated Analytical Techniques and their Application in	AICTE	NITTTR Chandigarh	ISF College	July 16 <sup>th</sup> -30 <sup>th</sup> 2011	2 weeks

	Pharmaceuticals					
10.	Intelligent	AICTE	SBSSTC,	Department of	July	2 weeks
	Computational		Ferozepur	Electronics and	4 <sup>th</sup> -15 <sup>th</sup>	
	Techniques			Engineering	2011	
11.	Biotechnology	MHRD	NITTTR	Applied Science	June	1 week
	and Biochemical		Chandigarh	Department	20 <sup>th</sup> -24 <sup>th</sup>	
	Engineering				2011	
12.	Strategic	MHRD/AICTE	NITTTR	CEC Department	July	1 week
	Management for		Chandigarh		20 <sup>th</sup> -24 <sup>th</sup>	
	Excellence				2009	
13.	Auto CAD	MHRD	SBSCET	Mechanical	April	1 week
			Ferozepur	Engineering	18 <sup>th</sup> -22 <sup>nd</sup>	
					2005	
14.	Induction	MHRD	TTTI,		July	2 weeks
	Programme for		Chandigarh	Education and	15 <sup>th</sup> -26 <sup>th</sup>	
	Faculty of			Educational	2002	
	Engineering			Department		
	Colleges					
15.	Total Quality	AICTE	SBSCET,	Department of	July	2 week
	Management and		Ferozepur	Mechanical	1 <sup>st</sup> -12 <sup>th</sup>	
	ISO 9000			Engineering	2002	
	Quality Systems					

The above information is true and correct to the best of my knowledge and belief.

Amit Arora