


## RESUME

1.	Name	Dr. Rajeev Kumar Garg	
2.	Correspondence Address	Associate Professor, Department of Chemical Engg SBS State Technical Campus, (Formerly, SBSCET Ferozepur) Moga Road, Ferozepur-152004	
			
3.	e-mail/ phone	rkg_garg@rediffmail.com +91-8288012013	
4.	Date of Birth	07-05-1971	
5.	Educational Qualifications	Ph.D. [2009]	Indian Institute of Technology Delhi, New Delhi
		M.E. [1995]	Panjab University, Chandigarh
		B.E. [1992]	Panjab University, Chandigarh
6.	Experience	Teaching: 18 years      Administration: 12 years	
		Controller of Examination	June 2015 onwards
		Head of Department, Chemical Engineering Department	18/07/2009 – 04/06/2015 13/08/2001- 23/01/2004
		Dean Academics/ Officer-in-Charge Academic Affairs	November 2008 to March 2011
		Coordinator M Tech Chemical Engg.	31/8/2007 onwards
		Member Board of Studies Chemical Engineering, IKGPTU Jalandhar	2010 onwards
		Member Board of Studies Chemical Engineering, MRSSTU Bathinda	2015 onwards
		Industrial Experience: 3 years 9 months	
		Assistant Manager, HPL Chemicals Pvt Ltd, Dera Bassi, Punjab	14/07/1995 – 26/08/1998
		GET, BPCL Refinery, Mahul, Bombay	04/01/1993 – 07/08/1993

7. Area of Specialization	Modeling and Simulation	
8. Research Publications (Annexure-A)	International Journal	08
	Book Chapters	02
	International Conference	12
	National Conference	22
9. PhD Guidance	03 in progress	
10. M. Tech. Guidance	05 in progress	08 completed
11. Professional Membership	Life member of ISTE	Life member of IChE
12. Funded Projects	02 completed	
	Modernization of Heat Transfer Laboratory	Rs. 1.5 Lacs
	Modernization of Computational Laboratory	Rs. 5.75 lacs
13. Number of invited talks	02	
14. Number of STCs/ FDPs	Conducted: 01 in collaboration with CIPET Amritsar	Recent Trends in Polymers, Composites & Their Engineering Applications
	Attended: one week- 08, two weeks- 09	
	Research Methodology: Tools & Techniques	SBSSTC (01 week)
	Applied Soft Computing	SBSSTC (01 week)
	Managerial Skills	NITTTR Chd (01 week)
	Modeling & Simulation using MATLAB	NITTTR Chd (01 week)
	Soft Skills for Technical Teachers	SBSSTC (01 week)
	Engineering Materials	SBSSTC (01 week)
	Business and Soft Skills Development in Institutions	NITTTR Chd (01 week)
	Renewable Energy Based Technologies	NITTTR Chd (01 week)
	Induction Training Programme for Faculty of Engineering Colleges	NITTTR Chd (02 week)

	Concepts of Renewable Energy Sources	Centre of Energy Studies, IIT, Delhi (2 weeks)
	Multi Criteria Optimization Tools in Research	SBSSTC (02 weeks)
	Nature Inspired Computational Intelligence	SBSSTC (02 weeks)
	Analytical Techniques for Detection of Environmental Pollutants	SBSSTC (02 weeks)
	Recent Trends in Polymers, Composites & Their Engineering Applications	SBSSTC (02 weeks)
	Recent Advances in Petrochemical Technology	NIT Jalandhar (02 weeks)
	Intelligent Computational Techniques	SBSSTC (02 weeks)
	Modern Sophisticated Analytical Techniques and Their Application in Pharmaceuticals	ISF College of Pharmacy (02 weeks)
15. Workshops attended	03	
	COMSOL Multiphysics Modeling Workshop	2nd Aug 2013
	Industry-Academia workshop on "Design of Refinery Distillation Columns" conducted by Petroleum Federation of India in association with EIL, IOC and PCRA	23rd -24th October 2013
	NBA Workshop at Thapar University Patiala	9-11 May 2013
16. Achievements	Set up the examination cell in the college for conduct and evaluation of examinations and conducted the examinations successfully	
	Department of Chemical Engineering was granted accreditation by NBA during my tenure as HOD	
	Passed M.E. in First class with distinction	

## ANNEXURE-A

### Journals

1. **Garg R.K.**, Krishnan V.V., Srivastava V.K., Prediction of Concentration and Temperature Profiles for Non Isothermal Ethane Thermal Cracking in a Pipe Reactor, Korean J. Chem. Engg., 23(4), 531-539, 2006
2. **Garg R.K.**, Srivastava V.K., Modeling and Simulation of Non Isothermal Thermal Cracker, J. Chem. Engg. of Japan, 39(10), 1057-4, 2006
3. **Garg R.K.**, Vashishta, M., Srivastava V.K., A Modeling Approach to Reaction of Non Newtonian Fluids in Tubular Reactor, Polymer-Plastics Technology and Engg, 46 (10), 965-971, 2007
4. Arora R, **Garg R K**, Grover N K, Numerical Studies on Droplet Evaporation at High Ambient Temperature and Pressures, International Journal of Advances in Thermal Science & Engineering, Vol. 1 (2), 2010, 133-137
5. Kalra P, **Garg R K**, Grover N. K., Kumar A, Structural Properties of Anode Composite Precursor of a Solid Oxide Fuel Cell Prepared via Combustion Synthesis Route, Asian Journal of Engineering and Applied Technology Vol-1 No. 2 July-Dec 2012, Pg 36-39, ISSN 2249-068X
6. Kalra P, **Garg R K**, Kumar A, Electrical characterization of NiO-CGO composites SOFC anode precursor- prepared via combustion synthesis route, International Journal of Innovative Research in Science, Engineering and Technology, Volume 3 Issue 5 May 2014, Pages 12071-12077, ISSN: 2319-8753.
7. Kalra P, **Garg R K**, Kumar A, Modeling of a High Temperature Solid oxide Fuel Cell, Journal of Energy Technologies and Policy Vol.5, No.2, 2015, ISSN 2224-3232 (Paper) ISSN 2225-0573 (Online).
8. Kumar B, **Garg R K** and Singh U, Utilization of Fly ash as Filler in HDPE/ Flyash Polymer Composites: A Review, International Journal of Applied Engineering Research, Vol 7, 11, 2012, pg 1679- , ISSN 0973-4562

### Book Chapters

1. Kalra P, **Garg R K**, Kumar A, Solid Oxide Fuel Cells- A Future Source of Power and Heat Generation, Engineering Applications of Nano-Science & Nano-Materials, Special edition of Material Science Forum 757, TransTech publications, edited by Rajesh Tayade and Ajay Bansal, pp 217-241, ISSN print 0255-5476 ISSN cd 1662-9760 ISSN web 1662-9752
2. Sood N, **Garg R K**, Jha M.K., Arora A. , Treatment of Leachate by Using Natural Adsorbents, Recent Advances in Bioenergy Research Volume II, © Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala-2013, Electronic version published by SSS-NIRE edited by Sachin Kumar, S. K. Tyagi, pp 217-241

## Conference

### *International*

1. **Garg R. K.** and Srivastava V.K., Modeling of Non-Newtonian Reactive Systems in Tubular Reactor, Proceedings of AIChE Annual Meeting, San Francisco, California, USA, 2006
2. **Garg R. K.** and Srivastava V.K., A Modeling Approach to Thermal Cracking in an Annular Reactor-Quencher, Proceedings of AIChE Annual Meeting, Salt Lake City, Utah, USA, 2007
3. **Garg R. K.** and Krishnan V.V., Multi-Reaction Equilibria in SOFC's Operating Directly on Hydrocarbons, Proceedings of Millennium Energy Summit 2007, CGCRI, Kolkata, India, 2007
4. Kalra P., **Garg R K**, Kumar A, Nano NiO-CGO SOFC anode composites precursor-Combustion synthesis and characterization, International Conference on Frontiers in Nanoscience, Nanotechnology and their Applications, NanoSciTech-2012, Deptt. of Chem. Engg., Panjab University, Chandigarh, Feb 16-18 2012
5. **Garg R K**, Arora A, Kumar R, The Role of communication technology in enhancing the accessibility of higher education, International conference of role of technology in enhancing the quality of higher education at Kanya Mahavidyalaya, Jalandhar, Oct 26-27 2012
6. Arora A, Mehra R, **Garg R K**, Tyagi A K, Measurement of indoor radon concentration in the dwellings of Bathinda district of Punjab from June – August 2010, ICRM-2011 (International conference on recycling and reuse of materials), Mahatma Gandhi University, Kerala, August 5-7 2011
7. Arora Rajiv, **Garg R K**, Grover N K, Toor A., Comparative Study of cubic Equations of State for Predicting Phase Behaviour of n-Heptane- Nitrogen Systems, 2nd International Conference and Exhibition on Waste to Wealth And 6th International Conference On Combustion, Incineration Pyrolysis & Emission Control, Malaysian Nuclear Agency, Kuala Lumpur, Malaysia, July 26-29, 2010
8. Arora Rajiv, **Garg R K**, Grover N K, Renewable Energy Resources in India : Sustainable development through eco-friendly approach, International Conference on Business Ethics and Human Values, Panjab University, Chandigarh, India, Dec 23-24, 2010
9. Kalra P., **Garg R K**, Modeling of a Solid oxide Fuel Cell with internal reforming, International conference on Frontiers of Material Research and Application (ISBN: 978-93-83842-92-6) held on Oct 30-31 2014 at SBSSTC, Ferozepur.
10. Kalra P., **Garg R K**, Advanced Materials for a Solid oxide Fuel Cell, International conference on Frontiers of Material Research and Application (ISBN: 978-93-83842-92-6) held on Oct 30-31 2014 at SBSSTC, Ferozepur.
11. Yadav P., **Garg R K**, Modeling Approach for Fluid Catalytic Cracking Reaction Kinetics, International conference on Frontiers of Material Research and Application (ISBN: 978-93-83842-92-6) held on Oct 30-31 2014 at SBSSTC, Ferozepur.
12. Kumar B, **Garg R K** and Singh U, Evaluation of Polypropylene Composites filled with Talc Particles as Filler, International conference on Frontiers of Material Research and Application (ISBN: 978-93-83842-92-6) held on Oct 30-31 2014 at SBSSTC, Ferozepur.

## **National**

1. **Garg R. K.** and Srivastava V.K., Modeling of Ethane Thermal Cracker- a 2-D Approach, Proceedings of CHEMCON 2005, Indian Chemical Engineering Congress, IIT Delhi, India, 2005
2. **Garg R. K.** and Srivastava V.K., Modeling of Thermal Cracker, Proceedings of the seminar on Recent Trends in Science, Technology and its Applications, Muzaffarnagar, UP, India, 2006
3. **Garg R. K.** and Srivastava V.K., Modeling and Simulation of Ethane Thermal Cracker: A Comparative Study, Proceedings of CHEMCON 2007, Indian Chemical Engineering Congress, IChE Kolkata, India, 2007
4. **Garg R. K.** and Krishnan V.V., Prediction of Nernst Voltage in a Direct Hydrocarbon Solid Oxide Fuel Cell, Proceedings of ICAER 2007, IIT, Mumbai, India, 2007
5. **Garg R. K.** and Srivastava V.K., Modeling of Ethane Thermal Cracking under Non-Isothermal Constant Heat Flux Condition, Proceedings of CHEMCON 2008, Indian Chemical Engineering Congress, Department of Chemical Engineering, Panjab University, Chandigarh, India, 2008
6. **Garg R. K.** and Srivastava V.K., Mathematical Treatment of Thermal Cracker for Ethane, Proceedings of CHEMCON 2011, Indian Chemical Engineering Congress, Department of Chemical Engineering, MS Ramaiah Institute of Technology Bangalore & Bangalore Regional Centre IChE, Bangalore, India, 2011
7. **Garg R. K.** and Srivastava V.K., Thermal Cracking of Methylcyclohexane: Mathematical Treatment and Optimization of Model Parameters, Proceedings of CHEMCON 2012, Indian Chemical Engineering Congress, Department of Chemical Engineering, NIT Jalandhar, India, 2012
8. Srivastava V. K. and **Garg R. K.**, Emergency Preparedness and Disaster Mitigation, Proceedings of Conference on Management and Technology of Control of Disasters, S.D. College of Engg. & Tech., Muzaffarnagar, UP, India, 2013
9. Kalra P., **Garg R K**, Kumar A, Effect of fuel concentration on electrical properties of NiO-CGO composites-SOFC anode precursor- prepared via combustion synthesis route, Advanced Materials & Radiation Physics, AMRP-2011, Dept. of Physics, SLIET Longowal 2<sup>nd</sup> National Conference, 4-5 Nov. 2011
10. **Garg R K**, Modelling and Simulation of Distillation Column, Advances in Modelling, Optimization and Computing (AMOC-2011), Dept. of Mathematics, IIT Roorkee International Conference, 5-7 Dec, 2011
11. Arora A, **Garg R K**, Koundle A, Maneet, Rajat, Supercritical fluid like CO<sub>2</sub> for the treatment of hospital waste, Biomedical Engineering and Assistive Technologies at NIT Jalandhar, 6-7 Dec 2012 ISBN-13: 978-81-925454-1-7
12. Sood Navneet, **Garg R K**, Jha M.K., Arora A., Treatment of Leachate by Using Natural Adsorbents, National Conference on Recent Advances in Bioenergy Research held at SSSNIRE, Kapurthala, 7-8 Dec 2012, ISBN 978-81-927097-1-0
13. Arora A, Upadhyaya S, Aditi, **Garg R K**, Koundle A, Isopropylation of m-cresol with isopropyl alcohol over zeolite catalyst, Chemcon-2012 at NIT Jalandhar, Dec 27-30, 2012
14. Kumar R, Sharma L, **Garg R K**, Subhash, Arora A, Adsorption of Congo Red on Fly Ash, Chemical Constellation CHEMINAR -2012 at NIT Jalandhar, Sept 10-12, 2013

15. Kalra P, **Garg R K**, Kumar A, Grover N. K., Structural Properties of Anode Composite Precursor of a Solid Oxide Fuel Cell Prepared via Combustion Synthesis Route, AFTMME-2012 at PTU Jalandhar, Oct 5-7 2012
16. Arora A, **Garg R K**, Mehra R, Tyagi A K, 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), SLIET Longowal Punjab, Dec 9-10 2011
17. Arora A, **Garg R K**, Mehra R, Tyagi A K, Statistical model of lifetime fatality risk due to indoor radon concentration of Bathinda District for period Dec 2010 to Feb 2011, National conference on advances and applications in statistics, Punjab University, Chandigarh Feb. 20 2012
18. Arora A, **Garg R K**, Sharma S, Wasson B, Kaur S, Radiation pollution in human habitat, National Conference on Material Science Application in energy and environment, DAV college Jalandhar. March 3 2012
19. Kumar B, **Garg R K** and Singh U, Effect of flyash as a filler on properties of HDPE/Flyash Polymer Composites, International Conference on Sustainable Technology For Energy and Environment in Process Industries and Indo-US Joint International Conference on Energy and Environment. Chemcon-2012, NIT Jalandhar, Dec 2012
20. Arora A, **Garg R K**, Koundle A, Rajat, Sehgal R, Sources and treatment techniques of hospital waste management ( A review), National Conference on Green Chemistry at SRM University, Ghaziabad, Sept 18-19 2012 ISBN 978-93-81583-58-6
21. Arora R, **Garg R K**, Grover N K, Calculation of thermo physical properties of n-heptane & nitrogen mixture using vapour liquid equilibrium, National Conference on Global Trends in Mechanical Engineering, Rayat & Bahra Institute of Engineering & Bio-Technology, Mohali, India, April 16-17 2010
22. Arora R, **Garg R K**, Grover N K, Simulation of Thermodynamic properties for n-heptane-nitrogen mixture at equilibrium, International Conference on Emerging Trends in Technology & Education, Sri Sukhmani Institute of Engineering & Tech., Dera Bassi, Punjab, India, April 15-16, 2010