

Bio-data



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Educational Qualification

- Ph.D. (near completion) from Guru Nanak Dev University, Amritsar.
Supervisor: Prof. A. K. Thukral & Dr. A. S. Reddy (Thapar University, Patiala)
Topic: Removal of chromium from wastewater using Electrocoagulation
- M.E. (Environmental Engineering) from Thapar Institute of Engineering & Technology, Patiala, Punjab, India (1996-2000). CGPA of 8.36 out of 10.
Topic: Factor analysis of river Satluj water quality data under the supervision of Dr. Pramod Kumar & Prof Indu Mehrotra, Dept. of Civil Eng., IIT Roorkee, Roorkee.
- B.E. (Civil Engineering) from Thapar Institute of Engineering & Technology, Patiala, Punjab (1992-1996). CGPA 6.41 out of 10

Experience (10 years):

- Assistant Prof. in Environmental Engineering at Guru Nanak Dev University, Amritsar since Jan. 2001.
- Research Fellow (Sept 1998 to January, 2001) at Thapar Institute of Engineering and Technology, Patiala in MOEF project on 'Water Quality Monitoring of River Satluj'

Research Publications (Annexure 1): International: 4 [**Cumulative IF of 11.8**]
National: 1 Popular articles: 2

Invited lecturer (Annexure II): IIT Roorkee, Roorkee, Thapar University, Patiala, Adesh Institute of Engineering & Technology, Faridkot, Army School, Amritsar Cantt, Foreign Language dept, GND Univ, Khalsa College, Amritsar.

Report Preparations

- Feasibility report on 'Solid Waste Management in Amritsar city with special reference to energy recovery' to Govt. of Punjab in November 2007.
- Report on 'Water Excreta Relationship of Amritsar city' to Centre for Science & Environment (CSE), New Delhi as Water and Excreta Research Network member. (June 2007)
- Design of Low cost Sewage Treatment Plant (2.5 crores liters per day), Guru Nanak Dev University, Amritsar (commissioned in June 2008 (cost 36 lakhs).

Consultancy:

- Technical advisor, Engineering department, Guru Nanak Dev University. Designed wastewater treatment plant for GNDU Regional Campus at Jalandhar (100 cum/day) and Gurdaspur. (400 cum/day) capacity in Oct, 2009.
- ETP up-gradation to of Nijjer Agro Foods Ltd., Amritsar, Guru Ram Das Institute of Medical Education & Research, Amritsar, Prabir Food Stuff, Amritsar..

Research Projects

- Minor research project on 'Heavy Metal Removal using Electroflocculation / Electrocoagulation from University Grants Commission, New Delhi (2008-2010)

Memberships: International: (i) American Chemical Society, USA (30122231) (ii) Water Environment Federation, USA (01016673) (iii) International Association of Computer Science and Information Technology (IACSIT), Singapore (80343044)

Indian: (i) Indian Water Works Association (ii) Punjab Academy of Sciences (iii) National Environment Science Academy (iv) Indian Society of Remote Sensing (v) The Indian Science Congress Association (vi) Indian Association of Environmental Management (vi) Indian Aerosol Science & Technology Association, Mumbai

Achievements:

1. Biography in 28th Edition of Who's Who in the World 2012, the reference directory by *Marquis Who's Who in America published in 2012*
2. Biography in 11th Edition of Who's Who in Science and Engineering, the reference directory by *Marquis Who's Who in America published in 2011*.
3. Member, Editorial Advisory board in International Journal of Environmental Sciences (ISSN: 0976-4402) Integrated Publishing Association.
4. Received Top Reviewer from Desalination (Elsevier Journal) in 2010.
5. Reviewed more than 70 papers from more than 15 Journals (**Annexure-III**)

Areas of expertise: Wastewater treatment, Electrochemical treatment, Heavy metal pollution, Drinking water quality, Air pollution analysis

Areas of interest: Experimental design/Design of experiments (DOE), Statistical Modeling, Process optimization, Multivariate data analysis, Response surface methodology

Countries visited: USA, Canada

References

Dr. A. S. Reddy Head, Dept. of Analytical Services, Thapar Centre for Industrial R & D, Bhadson Road, Patiala, Punjab, India Phone: 91-9501799899 Email: siva19899@gmail.com	Dr. A. K. Thukral Professor and Director (Research), Dept. of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, India Phone: 91-9417019459 Email: akthukral@rediffmail.com
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Annexure 1

Research Publications:

Bhatti, M.S., Reddy, A.S. and Thukral, A.K. (2009) Electrocoagulation removal of hexavalent chromium in simulated wastewater using response surface methodology. *J. Hazard. Mater. (Elsevier)* v172 pp. 839-845. [Impact factor: 3.7]

Available at: <http://dx.doi.org/10.1016/j.jhazmat.2009.07.072>

Bhatti, M.S., Reddy, A. S. and Thukral, A. K. (2011) Modeling and optimization of voltage and treatment time for the electrocoagulation removal of hexavalent chromium, *Desalination (Elsevier)* v269 pp. 157-162. [Impact factor: 1.8]

Available at: <http://dx.doi.org/10.1016/j.desal.2010.10.055>

Bhatti, M.S., Kapoor, D., Kalia, R., Reddy, A.S., Thukral, A.K. (2011) RSM and ANN modeling for electrocoagulation of copper from simulated wastewater: Multi objective optimization using genetic algorithm approach, *Desalination (Elsevier)* v 274 pp. 84-90. [Impact factor: 1.8]

Available at: <http://dx.doi.org/10.1016/j.desal.2011.01.083>

Kaith, B. S., Sharma, S., Jindal, R., Bhatti, M.S. (2012) Screening and RSM optimization for synthesis of Gum tragacanth-1 acrylic acid- based device for in-situ controlled cetirizine dihydrochloride release', *Soft Matter (Royal Soc. Chem.)* DOI: 10.1039/C2SM07033B [Impact factor: 4.5]

Available at: <http://xlink.rsc.org/?doi=C2SM07033B>

Popular articles:

1. Rajbir Bhatti & M. S. Bhatti. '**Heat Stress in the monsoon**' in Health & Fitness in **The Tribune**. v-123, no. 197. (July 18, 2007).
2. M S Bhatti & Rajbir Bhatti '**Coping with Fog**', Science, **The Tribune** v 123 pp. 12 (16th Jan 2003)

Annexure II

Invited talk:

- Colour, Turbidity, Conductivity and Solids in CPCB sponsored course on 'Chemical Analysis of Water and Wastewater' at Continuing Education Centre, IIT, Roorkee on 3rd Dec., 2009. (Received letter of appreciation and excellent rating by participants)
- Experimental design in Science & Technology at Adesh Institute of Engineering and Technology, Faridkot on National Technology day celebrations, May 11, 2009.
- Climate change at Foreign Language department, Guru Nanak Dev University on World Environment day celebrations, 5 June, 2009.

Annexure-III

Reviewer of International Journals:

Publisher	Journal Name (papers reviewed)
Elsevier	Desalination (20)- <i>Received top reviewer award in 2010</i> Ecological Modeling (2) Journal of Hazardous Materials (2) Journal of Cleaner Production (1)
Wiley	Clean-Air, Soil, Water (4) Wiley-VCH Coloration Technology (1) Wiley-Blackwell
Springer	Environment Monitoring & Assessment (7) Reviews in Env. Sci. and Bio/tech (1) Bioprocess & Biosystems Engineering (1)
Taylor & Francis	European J. Engineering Education (1)
Others	Desalination & Water Treatment (7) Eur. Desalination Soc. Env. Progress & Sustainable Energy (4) AICh Water Environment Research (2) USA Int. J. Chemical Reactor Eng. (1) bepress Air, Soil Water Res. (3) Libertas Academica Int. J. for Applied Industrial Engineering (1) Reports in Electrochemistry (1) Dove press Natural Resources (1) Scientific Research J. of Env. Chem. & Ecotoxic. (2) Academic J. African J. of Env. Sci. & Tech.(1) Academic J.