

Dr A. Bhattacharya

NATIONALITY: Indian

SUMMARY

A Water and Wastewater Professional having more than 23 years of experience in the field of Water(Raw Water-Potable and Industrial Use, Boiler Water, Cooling Water Applications) and Wastewater(Municipal and Industrial Effluent-STP,ETP) Treatment, Recycling and reuse, Fuel Additive, Solvent alternatives to ODS; EH&S, Global Warming and Climate Change related issues.

EDUCATION

- **Ph.D from Department of Chemical Engineering, Calcutta University, Kolkata; Year 2008; Area- Water and Wastewater Treatment Technology**
- Post Graduate equivalent to Master Degree in Ecology and Environment from Indian Institute of Ecology & Environment, New Delhi ;2001(Obtained 1st Class).
- 1st class M.SC. in Chemistry(Inorganic Special) from The University of Burdwan , 1987, obtained **National Scholarship during Post Graduation Study.**
- B.Sc. Chemistry Hons; 1st Class from The University of Burdwan; 1985

Professional Training Obtained:

- i) Attended a **Management Development Program** at **XLRI; Jamshedpur**
- ii) Attended a training program on "**Advancement in Chemical Analysis by FTIR Spectroscopy**" at **Indian School of Mines; Dhanbad.**
- iii) Attended a training program on "**Effluent Treatment**" conducted by "**National Technical Centre**" at **Hyderabad**

EMPLOYMENT RECORD

Present Activities (From June; 2012 onwards):

Chief Technology Officer and Consultant-Invenir Tech Systems; Kolkata (STP, ETP, WTP Projects and Rain Water harvesting)

Technical Consultant- Water and Wastewater Treatment Chemicals

Visiting Faculty-Master of Public Systems management (MPSM)-ENVM; IISWBM; Kolkata, National Power Training Institute-ER; Durgapur; W.B.

Trainer on Water and Wastewater Treatment, Monitoring and Control-Municipal and Industrial Applications

Acting as a Resource persons to various National Level Institutions, Govt, Non-Govt Organizations for Seminar/Corporate Level Presentations in Water and Wastewater Treatment Area

One and half year as **National Head- Technical; Wastewater Management(STP,ETP);** Waterlife India Pvt Limited; Kolkata; Registered and Corporate Head Office at Hyderabad (April;2011- May;2012).

Functional Activities- Technology Selection and Deployment, Process Design, Business Development through Technology Marketing, Tender Participation, Training, Partnership Development/ Collaboration in STP, ETP area.

2 Years as **Technical Advisor and Consultant-** Pennar Chemicals Hyderabad and Energy Plus India; Kolkata in Water and Wastewater Management; Activities- Training, Advisory Services on WTP, STP and ETP-Operation and Maintenance (2009-2011)

2.5 years in **German Technical Co-operation(GTZ) as a Central Co-ordinator** for West Bengal under **National CTC Phase Out Plan-an implementation plan for Montreal Protocol under MOEF; Ozone Cell, Govt. of India; mandated by Govt of Germany and Govt of France –an UNEP Project.** *Partnership program completed with-* a) *Environment Management Centre- Indian Chamber of Commerce (ICC-EMC);Kolkata* b) *Bengal national Chamber of Commerce(BNCCI); Kolkata, No of Industry Surveyed- Above Eight Hundred industries in*

Metal, Power and Textile sectors, No of Field Exploration made- Around 100, No of seminar /workshop conducted- Around 30 (from July;2007- July 2009).

3.5 years as **Head-Technical and Marketing** in Asianol Specialty Chemicals; Kolkata in **Technical Collaboration with Rochester Midland Corporation; USA, (2003-June-2007)**

Spent around 14 years as Sr Research Officer in Technical Development and Research function at Nalco Chemicals India limited(a subsidiary of Nalco Chemical Company; USA), (1990-2003)

Responsible for working in Industrial and Municipal Wastewater Treatment with Novozyme Biologicals for deployment of Environmental Biotechnology in India.

Experience of teaching and guiding research project on Environmental Engineering/Management with a focus on Water and wastewater management as a Visiting Faculty /Expert to National Level Institutions.

PROFESSIONAL EXPERIENCE

List of some of the Customers handled on Water and Wastewater Management Issues:

NOCIL-Thane, Zuari Industries Limited-Goa, IPCL-Nagothane, BPCL-Mumbai, SPIC's Fertilizer Division- Tuticorin,, GAIL Petrochemical Complex-Pata;UP, Oswal Chemicals and Fertilizer Division-Shahajanpur, SAIL-Rourkela;Bhilai and Durgapur Steel Plant, Oswal Chemicals and Fertilizers Limited-Paradeep, Orissa Sponge Iron Limited-Keonghar, Indian Charge Chrome Limited-Cuttack, IOC-Barauni, Haldia Petrochemicals Limited-Haldia, Mitsubishi PTA Limited-Haldia, Hind Lever and Chemicals Limited-Haldia, Exide Industries Limited-Haldia, CFCL-Haldia, Exide Industries Limited-Shyamnagar, ITC Paper Board Division-Bhadrachalam, United Breweries Limited-Kalyani, Berger Paints India Limited-Howrah, Bhushan Steels Limited-Serampur; Hooghly, Emami Paper Mills Limited-Balasore, Palta Water Works Division-Palta, Sudha Dairy Limited-Jamshedpur, Tisco-Jamadoba , Wacker Metroark Limited-Amtoala, Elque Polyester Limited-Falta and Tata Steel-Jamshedpur, Tata Cummins – Jamshedpur, Usha Martin-Jamshedpur, Xpro India Limited- Durgapur, PCBL-Durgapur,. NABARD- Mumbai, Kolkata Municipal Corporation, Public Health Engineering Department;

Karnataka State Road Transport Corporation; Bangalore, JUSCO-A Tata Group Utility Company; Jamshedpur

PROFESSIONAL AFFILIATIONS

- Fellow Member -International Congress of Chemistry and Environment
- Life Member-Indian Institute Chemicals Engineers; Kolkata
- Life Member-Indian Water Works Association; Mumbai
- Life Member -Millennium Institute of Energy and Environment; Kolkata.
- Life Member- Indian Association of Air Pollution Control, New Delhi
- Life Member- Forum of Scientists, Engineers and Technologists (FOSET); Kolkata
- Member- Environment Management Center, Indian Chamber of Commerce; Kolkata

PUBLICATIONS

Journal Papers(28): International level-Fifteen(16)including peer reviewed journals, National Level-Twelve(12), Proceedings Papers (National & International Seminars): Eighteen (20) in the field of Chemical Science, Ecology and Environment with major focus on water and wastewater management

Major Publications:

- 1) **A K Bhattacharya**, S.N. Mondal, S.K. Das, Adsorption of Zn(II) from aqueous solution using different low cost adsorbents. *Chemical Engineering Journal, Elsevier Publication*, 123, 43-51 (2006).
- 2) **A K Bhattacharya**, T K Naiya, S N Mondal, S K Das, Adsorption, kinetics and equilibrium studies on removal of Cr(VI) from aqueous solution using different low cost adsorbents. *Chemical Engineering Journal, Elsevier Publication*, 137(3), 529-541 (2008).
- 3) **A K Bhattacharya**, S.N. Mondal, B Bhattacharya, Bioaugmentation Technology in Textile Mill Wastewater Management- a case study, *Research Journal of Environmental Sciences, Academic Journals Inc, USA*, 2(1): 32-39 (2008).
- 4) T K Naiya, **A K Bhattacharya**, S K Das, Adsorption of Pb(II) by Saw Dust and Neem bark from aqueous solutions, *Environmental Progress(an AIChE Journal, Willey Publications*; 27 (3) 313-328 (2008) .

- 5)) T K Naiya, **A K Bhattacharya**, S K Das, Removal of Cd(II) from aqueous solutions using clarified sludge, *Journal of Colloid and Interface Science, Elsevier Publications*, 325 (1) 48-56 (2008).
- 6) T K Naiya, **A K Bhattacharya**, S N Mandal, S K Das, The sorption of Cd(II) on to rice husk ash, accepted for publication in *Environmental Progress(an AIChE Journal, Willey Publications*; (2008).
- 7) Tarun Kumar Naiya, **Ashim Kumar Bhattacharya**, Sailendranath Mandal and Sudip Kumar Das The sorption of Lead (II) ions on rice husk ash, *Journal of Hazardous materials, an Elsevier publications*, 163(2009)1254-1264.