

Binay K Dutta

Visiting Professor, School of Env Science and Engg, IIT, Kharagpur

Ph.D. in Chemical Engineering, IIT, Kharagpur; Chartered Engineer

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Experience: Over Forty years. Worked in teaching and research in eight universities and institutes (India, USA, Canada, Malaysia, UAE; one year and a half with USEPA).

Regional Engg College (now NIT), Durgapur, Lecturer in Chem Engg

Calcutta University (worked as Head of the Dept of Chem Engg and

Director, Academic Staff College)

National Inst. of Standards and Technology (Boulder, Colorado, USA), Visiting Scientist

Stevens Institute of Technology (Hoboken, New Jersey, USA), Visiting Scientist

US Environmental Protection Agency (Cincinnati, Ohio), Senior Associate

University of Alberta (Edmonton, Canada), Visiting Professor

University of Technology Petronas (Malaysia), Professor of Chem Engg

The Petroleum Institute (Abu Dhabi, UAE), Professor of Chem Engg

Ex-Chairman, West Bengal Pollution Control Board

Adjunct Professor, IIT, Kharagpur, 2015

Visiting Prof, Western University, Canada, Summer, 2016

Adjunct Professor, Univ Akron, Ohio, USA, Fall 2016

Adjunct Professor, Indian Institute of Petroleum and Energy, Vizag, 2017

Chairman, Board of Governance, Govt College of Engg and Ceramic Technology

Specialization and Research Areas: Chemical Engg and Environmental Sci. and Engg (Pollution Control, Transport Processes, Separation Processes, Mathematical Modeling).

Ph.D. Supervision: 12 (eleven in Chem Engg and one in Civil Engg)

Patents: (i) Two US Patent; (ii) One European Patent (on a new technique of removal of toxic volatile organics from wastewater; (iii) One Malaysian Patent (This is on a novel technique of sulfide removal from petrochemical wastewater. (This invention, called the Sulfidox Method, got the Gold Medal in the International Exhibition on Inventions, Geneva, April 2009); (iv) One Indian patent application filed on emission cleaning in Goldsmiths' units.

Research Papers: Over one hundred, mostly in international journals;

Presented more than sixty papers in conferences in India and abroad.

Research work includes removal of contaminants such as sulfur dioxide from emissions using solid and liquid substances, removal of contaminants from effluents using advanced oxidation as well as membrane processes, applied thermodynamics, reaction engineering and mathematical modeling.

Books:

– (i) Heat Transfer – Principles and Applications

(ii) Principles of Mass Transfer and Separation Processes
Prentice Hall India

(iii) Mathematical Methods in Chemical and Biological Engineering, CRC Press, 2016.

Projects and Consultancy: Investigator of many such projects in India and abroad

Activities in Professional Institutes:

Fellow, Institution of Engineers

Fellow, Indian Institute of Chemical Engineers

Life Member, Indian Membrane Society

Editor, Indian Chemical Engineer (Journal), 1994-1995

Honorary Secretary, Indian Institute of Chemical Engineers, 2003 and 2004

President, Indian Institute of Chemical Engineers, 2005.

Self Attested

