Name: Dr Bandana Chakrabarty

Address: Chemical Engineering Department, Assam Engineering College, Guwahati

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Educational details:

- Ph.D in Chemical Engineering from IITG, Guwahati

(Research area: Separation of oil from oily waste water by Ultrafiltration PSf Membrane)

- M.Tech in Chemical Engineering from IITR, Roorkee
- B.E. in Chemical Engineering from Assam Engineering College, Guwahati

Employment details:

Present Designation: Professor **Date of joining service as:**

- Lecturer: 19-10-1992 (3f), Regularized on 18.08.1994
- Senior Lecturer:18.08.1999
- Selection Grade Lecturer:18.08.2004
- Associate Professor (CAS): 01.10.2007
- Associate Professor (Cadre): 17.03.2017 **Areas of Interest:**

- Chemical Reaction Engineering
- Heat Transfer Operation
- Process Calculation
- Design
- Membrane Separation Processes

List of Publications:

International Journal: 1) Bipul Das, Bandana Chakrabarty and Pranab Barkakati, "Separation of oil from oily wastewater using low cost ceramic membrane", Korean J. Chem. Eng., 34(10), 25592569 (2017).

2) Bipul Das, Bandana Chakrabarty and Pranab Barkakoti, "Preparation and Characterization of novel Ceramic Membranes for Micro-filtration Applications", Ceramics International, 42 (2016), 14326-14333.

3) B. Chakrabarty, A. K. Ghoshal, M. K. Purkait, "Flux decline in ultrafiltration of oilinwater emulsion: Analysis of fouling mechanism", International Journal of Geomechanics and Engineering Vol. 1 No.5 , 2010.

4) B. Chakrabarty, A. K. Ghoshal, M. K. Purkait, "Cross-flow ultrafiltration of stable oilin-water emulsion using polysulfone membranes", Chemical Engineering Journal 165 (2010) 447–456.

5) B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, "Ultrafiltration of stable oil-inwater emulsion by polysulfone membrane", J. Membr. Sci., 325 (2008) 427 – 437.
6) B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, "Preparation, characterization and performance studies of polysulfone membranes using PVP as an additive", J. Membr. Sci. 315 (2008) 36 - 47.
7) B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, "SEM analysis and gas permeability test to characterize polysulfone membrane prepared with polyethylene glycol as additive", J. Colloid and Interface Science 320 (2008) 245 – 253.
8) B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, "Effect of Molecular weight of PEG on Membrane Morphology and Transport Properties", J. Membr. Sci. 309 (2008) 209 – 221.
9) B. Chakrabarty, A. K. Ghoshal and M. K. Purkait, "Structural and Transport Property Enhancement of Polysulfone Membrane due to PEG as Additive", International Journal of Chemical Sciences 5 (4) (2007) 1873 - 1881.

National Conference:

1) B. Chakrabarty, A. K. Ghoshal, M. K. Purkait, Preparation of Polysulfone membrane by phase inversion method, CHEMCON-2007.

Others:

1. Life member of IIChE
2. Member of Academic Council of Assam Science and Technology University