

Sharmistha Basu-Dutt, Ph.D.

A. Professional Preparation

INSTITUTION	DISCIPLINE	DEGREE	YEAR
Jadavpur University, Calcutta, India	Chemical Engineering	B.S.	1987
Wayne State University, Detroit, MI	Chemical Engineering	M.S.	1991
Wayne State University, Detroit, MI	Chemical Engineering	Ph.D.	1995

B. Appointments

PERIOD	POSITION	INSTITUTION
2020-present	Associate Dean	University of West Georgia
2015-2020	Chair of Chemistry	University of West Georgia
2011-present	Professor of Chemistry	University of West Georgia
2003-2011	Associate Professor of Chemistry	University of West Georgia
2003-present	Director of Engineering Studies	University of West Georgia
1997-2003	Assistant Professor of Chemistry	University of West Georgia
1996-1997	Instructor of Chemistry	University of West Georgia

C. Publications

(i) Relevant to the proposed work:

1. S. Basu-Dutt, M. Minus, D. Nepal, R. Jain, S. Kumar "Chemistry of Carbon Nanotubes for Everyone," *Journal of Chemical Education*, **2012**, 89, 221-229.
2. S. Basu-Dutt, J. Bartley, C. Slappey, "Making Chemistry Relevant to the Engineering Major," *Journal of Chemical Education*, **2010**, 87, 1206-1212.
3. J. Bartley, S. Basu-Dutt, V. J. Geisler, F. A. Khan, S. Swamy-Mruthinti, "Making Chemistry Relevant to Science and Engineering Majors," in S. Basu-Dutt (ed.) *Making Chemistry Relevant: Strategies for Including All Students in Learner-Sensitive Classroom Environment*, John Wiley and Sons, **April 2010**.
4. K. Gardner, E. Croker, S. Basu-Dutt, "Temperature Dependence Studies of Energy and Entropy," *The Chemical Educator*, **2003**, 8, 1-6.
5. E. Croker, S. Basu-Dutt, "A Classical and Quantum Chemical Analysis of Gaseous Heat Capacity," *The Chemical Educator*, **2002**, 7, 1-6.

(ii) Other significant publications:

6. S. Basu-Dutt (ed.), *Making Chemistry Relevant: Strategies for Including All Students in Learner-Sensitive Classroom Environment*, John Wiley and Sons, **April 2010**.
7. P. H. Reggio, S. Basu-Dutt, D. P. Hurst, et al. "What is the Bioactive Conformation of Aminoalkylindoles at the Cannabinoid CB1 and CB2 Receptors? Insights Gained from E and Z Naphthylidene Indenes," *Journal of Medicinal Chemistry*, **1998**, 41(26), 5177-5187.
8. S. Basu-Dutt, M. R. Fandino, I. M. Thompson, S. O. Salley, G. C. Whittlesey, M. D. Klein, "Feasibility Studies for a Photosynthetic Artificial Lung-Interfacing the Bioreactor with

Aqueous Medium,” *American Society for Artificial Internal Organs Journal*, **1997**, 43(4), 279-283.

9. S.Basu-Dutt, S. O. Salley, G. C. Whittlesey, M. D. Klein, “Feasibility Studies for a Photosynthetic Artificial Lung - Optimization of Parameters Affecting Photosynthesis,” *American Society for Artificial Internal Organs Journal*, **1994**, M743-46.

D. Synergistic Activities

1. **Principal Investigator** on fifteen Department of Education’s Teacher Quality grants, 2006 – 2017.
2. **Principal Investigator** on Camille and Henry Dreyfus Foundation funded outreach program “Research via Active Collaboration with High Schools,” 2011 – 2012.
3. **Principal Investigator** on NSF-CCLI grant # 9952566 “Visualization and Computation in the Undergraduate Chemistry Curriculum”, 2000 – 2002.
4. **Co-Principal Investigator and Executive Committee member** on NSF-STEP grant # 336571 “Generating Enthusiasm in Mathematics and Sciences,” 2004 – 2009.
5. **Principal Investigator** on Community Foundation of West Georgia funded “Improving Motivation, Performance and Attitudes of Children and Teachers,” 2008 – 2012.