

Shanta Mukhopadhyay

Designation: Associate professor

Qualification: Ph.D.

Email id: shanta.mukho@gmail.com

Academic Profile:

Awards won:

- (i) Won Mrigendra Nath Ghosh Gold Medal for securing 1st position in B.Sc. (Chemistry Honours) Examination, 1988, The University of Burdwan.
- (ii) Won University Gold Medal for securing 1st position in M.Sc.(Chemistry) Examination, 1990, The University of Burdwan.
- (iii) “Madanmohan Tarkalankar” puroshkar for Bengali novel “Obinashwar” in the year 2021

Research Experience:

- (i) Research Interest: Studies of some aspects of classical motion and its effect on some generic quantum phenomena
- (ii) Pre-doctoral research: In Physical Chemistry Department of Indian Association for the Cultivation of Science, Jadavpur, Kolkata as CSIR Fellow under supervision of Prof. Deb Shankar Ray from August 1991 to December 1996.
- (iii) Post Doctoral research: **Institute of Molecular Science, Okazaki, Japan** as JSPS(Japan Society for the Promotion of Science) Fellow, in the theory group of Prof. H. Nakamura, IMS, Japan, 1998

Distinctions as a Researcher

- (i) Paper selected for participation in colloquium for Young Physicist 1994 and presented paper on 25. 08. 1994.
- (ii) Participated in “Spring College in Condensed Matter on: Disorder and Chaos in Quantum Systems” in **International Centre for Theoretical Physics, Trieste, Italy** on 6th May to 7th June 1996 funded by Government of India.
- (iii) Selected as Theoretical Physics Seminar Circuit Lecturer (**Category A**) in the year 1996.

Member of Learned Body:

- Member of TWOWS (Third World Organisation for Women in Science), Trieste, Italy.
- Member of Indian Academy of Sciences.
- Member of Physical Chemistry Teachers’ Forum

Teaching Experience :

UG : 25 Years

PG : 5 Years

Invited Lectures

- (a) Delivered lecture as invited speaker of Theoretical Physics Seminar Circuit at
- (b) Hyderabad Central University
- (c) Centre for Nonlinear Dynamics, Trichy, India
- (d) Raman Research Institute, Bangalore, India
- (e) Presidency College, Kolkata

Other Academic Activities

- (i) Biodata is included in database as a teacher of Indian Academy of Science
- (ii) Attended 21st mid-year meeting of Indian Academy of Sciences and took part in Panel discussion with the Education Panel of the Academy from 1st to 3rd July, 2010.
- (iii) Organised State Level Seminar on “Recent Trends in Chemistry” on 15th November, 2006
- (iv) Organised UGC sponsored National Seminar on “Journey of an atom through 100 Years” On 15th and 16th December, 2011

- (v) Served as the convenor of CPE (Colleges with Potential Excellence) Committee of Bethune College, Kolkata
- (vi) Passed Senior certificate course in Italian Language from School of Languages, Ramakrishna Mission, Golpark in the year 2003.

List of publications :

(A) In Science

- (i) Signature of Classical Motion on Quantum Tunnelling by *Shanta Chaudhuri and Deb Shankar Ray*, Physics Letters, A168, 1992(starting page: 187).
- (ii) Signature of Classical Chaos on Quantum Tunnelling by *Shanta Chaudhuri and Deb Shankar Ray*, Physical Review, E47, 1993(starting page: 80).
- (iii) Fluctuation Diffusion Relationship in Chaotic Dynamics by *Shanta Chaudhuri Gautam Gangopadhyay and Deb Shankar Ray*, Physical Review, E47, 1993 (starting page: 311).
- (iv) Fluctuation and decoherence in Classical Chaos: A Model Study of Kubo Oscillator Driven by a Chaotic System by *Shanta Chaudhuri Gautam Gangopadhyay and Deb Shankar Ray*, Physical Review, E52, 1995 (starting page : 2262).
- (v) Signature of Classical Chaos on Field-induced Quantum Barrier Crossing by *Shanta Chaudhuri Gautam Gangopadhyay and Deb Shankar Ray*, Indian Journal of Physics, 69B (1995) (starting page : 507).
- (vi) Field-induced Quantum Barrier Crossing: Classical Chaos and Weak Localisation by *Shanta Chaudhuri Gautam Gangopadhyay and Deb Shankar Ray*, Physics Letters, A126,1996 (starting page : 53).
- (vii) Quantum evolution of a chaotic system in contact with surroundings by *Shanta Chaudhuri Devasis Mazumdar and Deb Shankar Ray*, Physical Review, E53, 1996 (starting page : 5816).
- (viii) Theory of Quantum Fluctuations in Classically Chaotic Hamiltonian Systems by *Shanta Chaudhuri Gautam Gangopadhyay and Deb Shankar Ray*, Physical Review, E54, 1996 (starting page : 2359).
- (ix) A Stochastic approach to Chaotic Diffusion by *Bidhan Chandra Bag, Shanta Chaudhuri and Deb Shankar Ray*, Indian Journal of Physics, 72B, 1998 (starting page : 267).
- (x) A Semiclassical Theory of Quantum Noise in Open Chaotic Systems by *Bidhan Chandra Bag, Shanta Chaudhuri Jyoti Pratim Roy Chaudhuri and Deb Shankar Ray*, Physica, D125, 1999 (starting page: 47)

In literature

Books:

- (i) Collection of Bengali poems named "Kichhu Kotha Hoyto ba Kobita", ISBN 978-1-63535-703-5
- (ii) Collection of Bengli short stories named "Soi" ISBN 9788193536377
- (iii) Collection of Bengali short stories named "Aborto" ISBN 9789388815048
- (iv) Collection of Bengali poems named "Nokshi kotha" ISBN 978-93-88815-90-1
- (v) Bengali novel named "Obinoswor" ISBN 9789388815666
- (vi) Memoir in Bengali named "Tukir golpo" ISBN 9789391869731
- (vii) Bengali Short story in "Ek Akash Onek Nakshatra", Edited volume by Lakshmi Narayan Chakraborty and Bireshwar Sarkar,

In Journals:

- (i) Published Bengali short story in "Bonami", May, 2019, ISSN 2395-0021
- (ii) Published Bengali poem in "Ebong Srot", July, 2019
- (iii) Published Bengali short story in "Bonami", October, 2019, ISSN 2395-0021
- (iv) Published Bengali short story in "Deshkaal", 2019, ISSN 2320-012X
- (v) Published Bengali short story in "Maitridut", October, 2019
- (vi) Published Bengali poem in "Ebong Srot", October, 2019
- (vii) Published Bengali short story in "**Anandabazar Rabibasariya**" on 15th December, 2019
- (viii) Published Bengali short story in "Arai ghor", December, 2019
- (ix) Published Bengali short story in "Bonami", October, 2020, ISSN 2395-0021
- (x) Published Bengali short story in "Antahin", December, 2020
- (xi) Published Bengali short story in "Twenty Twenty", December 2020
- (xii) Published Bengali short story in "Antahin", March, 2021
- (xiii) Published Bengali short story in "Antahin", June, 2021
- (xiv) Published Bengali short story in "Antahin", September, 2021
- (xv) Published Bengali short story in "Bonami", October, 2021, ISSN 2395-0021
- (xvi) Published Bengali short story in "**Kishore Bharati**", March, 2022

And in many other e magazines named "Aparjan", "Cholovash", "Ebong Soikotha", "4No. Platform" etc.