

CURRICULUM VITAE**Dr. SAMPAD GHOSH**

Assistant Professor,
Department of Chemistry,
NIT-Jamshedpur, Jharkhand.

Ph.No. – (+91) 9434238986.

Email: justsampad@gmail.com

**OBJECTIVE:**

To seek a challenging opportunity as **Faculty/Scientist** position and to satisfy my employer.

PERSONAL:

Male; Married; Born on 05th June 1978, Kolkata, India

EDUCATIONAL QUALIFICATION:

Exam passed	Board/Univ	Year	Percentage of Marks	Subjects
Madhyamik (10 th)	W.B.B.S.E.	1994	76.55	Beng, Eng, Math, Phy.Sc, etc.
H.S. (10+2)	W.B.C.H.S.E	1996	66.10	Math, Phy, Chem, Bio.etc.
B.Sc.(Hons)	Burdwan University	2000	53.25	Chemistry
M.Sc.	CSJM University, Kanpur	2002	61.10	Chemistry (Organic)
M.Tech.	N.I.T.-Durgapur	2005	77.90	Corrosion Sc. & Technology
NET	CSIR-UGC.	2003, 2004	----	Chemical Sciences
Ph.D	IIT - Kharagpur	10 th June 2011	----	Biophysical & Analytical Chemistry

Ph.D Thesis Title: **“Interaction of Cationic and Anionic Surfactants: Preparation of pH-Responsive Stable Vesicles for Drug Delivery Applications”**

HIGHLIGHTS:

- Extensive experience in field of **synthesis of organic molecules, their characterization, and their use in pH-responsive vesicular drugs delivery.**
- **Corrosion and extraction of metals from ores.**
- Good organizational and management skills.

EXPERIENCE:

- Worked as Part-time **Lecturer** in Bengal College of Engineering & Technology, Durgapur for nearly three months.
- Worked as **Research scholar** in National Metallurgical Laboratory (a CSIR Lab) from October 2005 to January 2007.
- Worked as **Senior Research Fellow** in Dept. of Chemistry, IIT Kharagpur from February 2007 to April 2011.
- Currently appointed as **Assistant Professor** (on Contract) at **National Institute of Technology, Jamshedpur** since April 2011.

INSTRUMENTAL EXPERTISE:

I have hands on experience on various instrumental techniques for elemental analysis, metal extraction, and organic synthesis.

Characterization Techniques:-

- UV-Visible Spectroscopy, FT-IR, CHNSO analyser, ^1H and ^{13}C NMR, Circular Dichroism, Surface Tensiometry, AAS, Fluorescence Spectrophotometer, Fluorescence Confocal Microscopy, Field Emission Scanning Electron Microscopy, High Resolution Transmission Electron Microscopy, Dynamic Light Scattering, X-ray Diffraction etc.

AWARDS AND HONOURS:

- **National Scholarship** from Ministry of Education, Govt. of India in 1991-94.
- **Graduate Aptitude Test in Engineering (GATE)**, March 2003.
- **National Eligibility Test (NET)**, CSIR-New Delhi, June 2003 and Dec 2003.
- **Junior Research Fellow** (DST, New Delhi), Feb 2007 - June 2009, IIT Kharagpur.
- **Senior Research Fellow** (CSIR, New Delhi), Dec 2009 - March 2011, IIT Kharagpur.
- **Reviewer** of Central European Journal of Chemistry, Industrial and Engineering Chemistry Research, Journal of the Chinese Chemical Society.
- **Invited Speaker** in the National Conference on Nanoscience and Nanotechnology at Techno India, Salt Lake, September 14-15, 2012.

PAPER/POSTER PRESENTATION:

- Presented a poster on "*Recent trends in Chemistry*" **Sampad Ghosh** and Ashoke Srivastava in CSJM University, Kanpur, India, 2002.

- Presented a lecture on “*Green Chemistry-The Chemistry of New Millennium*” **Sampad Ghosh** and Alak Kumar Ghosh in NIT-Durgapur, India, 2004.
- Presented a poster on “*Stable vesicles from mixtures of N-Acylamino acid derived surfactants and N-Cetylpyridinium chloride*” **Sampad Ghosh** and Joykrishna Dey, *International Conference on Soft System*, Jadavpur University, Kolkata, India, Feb., 13-15, 2008.
- “*Vesicle-Forming Zwitterionic Surfactant as a Chiral Selector for Enantiomeric Separations by Capillary Electrophoresis*”. Arjun Ghosh, **Sampad Ghosh**, Dibyendu Khatua, and Joykrishna Dey, *Sixth One Day National Symposium in Chemistry*, Indian Institute of Technology, Kharagpur, India, November 8, 2008.
- Presented a poster on “*Characterization of the catanionic mixtures of sodium n-acyl-l-alaninate and n-cetylpyridinium chloride surfactants: spontaneous formation of stable vesicles*” **Sampad Ghosh** and Joykrishna Dey, *Chemical Research Society of India*, NCL-Pune, India, Feb.,6-8, 2009.
- Presented a poster on “*Colloids, drug delivery, and enantioseparations*”, **Sampad Ghosh** and Joykrishna Dey, *Research Scholar Day*, IIT Kharagpur, India, Sept, 14, 2009.
- Presented a lecture on “*Preparation and characterization of pH-responsive stable vesicles*” **Sampad Ghosh** and Joykrishna Dey, *Research Scholar Day*, IIT Kharagpur, India, Sept, 14, 2010.
- Presented a poster on “*Vesicles in metal extraction from ores*”, **Sampad Ghosh**, *International Symposium on Recent Trends of Research in Chemistry*, Midnapore College, India, Oct 31-Nov 1, 2011.
- Attended Faculty Development Programme on “*Materials – Present and Future Perspectives*”, **Sampad Ghosh**, NIT Calicut, India, Dec 12-16, 2011.

PROJECTS:

- Done M.Tech. Project on the topic “**Kinetic studies on corrosion of mild steel in pure and mixed aqueous media of urea, sodium chloride, potassium chloride, glycine.**” in NIT-Durgapur.
- Worked in a GAP Project on the topic “**Studies on hydrometallurgical recovery of base metals from selected sulphides**” in NML- Jamshedpur (a CSIR Lab).
- Worked in a Project on the topic “**Preparation of stable vehicles from catanionic surfactants for drug delivery: Characterization by surface tension, fluorescence probe, light scattering and microscopic techniques.**” in Department of Chemistry, IIT Kharagpur.

LIST OF PUBLICATIONS:

- “Physicochemical properties and microstructure formation of the surfactant mixtures of sodium *N*-(2-(*n*-Dodecylamino) ethanoyl)-L-alaninate and SDS in aqueous solutions” Khatua, D.; **Ghosh, S.**; Dey, J.; Ghosh, G.; Aswal, V. K. *J. Phys. Chem. B* **2008**, *112*, 5374-5380.
- “Spontaneous formation of pH-sensitive, stable vesicles in aqueous solution of *N*-[4-*n*-octyloxybenzoyl]-L-histidine”. Patra, T, **Ghosh, S.**; Dey, J. *Soft Matter* **2010**, *6*, 3669-3679.
- “Interaction of sodium *N*-Lauroylsarcosinate with *N*-alkylpyridinium chloride surfactants: Spontaneous formation of pH-responsive, stable vesicles in aqueous mixtures”. **Ghosh, S.**; Dey, J. *J. Colloid Interface Sci.* **2011**, *358*, 208-216.
- “Interaction between zwitterionic and anionic surfactants: Spontaneous formation of zwitterionic vesicles”. **Ghosh, S.**; Khatua, D.; Dey, J. *Langmuir* **2011**, *27*, 5184-5192.
- “Kinetic studies on corrosion of mild steel in pure and mixed aqueous media of urea, sodium chloride, potassium chloride and glycine” **Ghosh, S.**; Ghosh, A.K. *International Journal of Creative Mathematical Sciences and Technology*, **2012**, *1(1)*, 19-26.
- “Simultaneous extraction of copper and iron from chalcopyrite concentrates in hydrochloric acid media: Effect of additives and temperature.” **Ghosh, S.**; Prasad, S.K.; Choudhury, A.K. (*In Press*).
- “Isolation and preliminary characterization of potent bioactive fraction with antioxidant and UV absorbing potential from *Aloe vera* L. Gel”. Ray, A.; **Ghosh, S.**; Dutta Gupta, S. (*In Press*).
- “Interaction in aqueous mixtures of sodium *N*-(*n*-Alkanoyl)-L-alaninate and cetyl pyridinium chloride surfactants: Effect of composition and hydrocarbon chain length”. **Ghosh, S.**; Dey, J. (*Communicated*)
- “Spontaneous vesicle formation in mixtures of sodium *N*-(*n*-Alkanoyl)-L-alaninate and cetyl pyridinium chloride surfactants: Effect of hydrocarbon chain length”. **Ghosh, S.**; Dey, J. (*Communicated*)

MEMBER OF PROFESSIONAL BODIES: Life member, Chemical Research Society of India (CRSI), Indian Chemical Society (Annual Member).

CO/EXTRA CURRICULAR ACTIVITIES:

- Acted/acting as Faculty Advisor, Tabulator-in-charge in Chemistry Dept, NIT-Jamshedpur.

DECLARATION:

I here by assure that the above informations provided are true to the best of my knowledge and belief.

Place:

Date:

Sampad Ghosh

(SAMPAD GHOSH)

REFERENCES:

- 1. Dr. Joykrishna Dey**
Professor
Department of Chemistry
I.I.T Kharagpur – 721302, India.
E-mail: joydey@chem.iitkgp.ernet.in
Phone No.: (91) 03222 283308.
- 2. Dr. Swagata Dasgupta**
Professor
Department of Chemistry
I.I.T Kharagpur – 721302, India.
E-mail: swagata@chem.iitkgp.ernet.in
Phone No.: (91) 03222 283306.
- 3. Dr. Dibakar Dhara**
Assistant Professor
Department of Chemistry
IIT Kharagpur-721302, India
E-mail: dibakar@chem.iitkgp.ernet.in
Phone No.: (91) 03222 282326.
- 4. Dr. Alak Kumar Ghosh**
Associate Professor
Department of Chemistry
Burdwan University
E-mail: alakghosh2002@yahoo.co.in
Phone: 09434387256.