

**FACULTY MEMBER ACADEMIC PROFILE**

1. **Name of the Faculty member:** Dr. DEBAJYOTI SAHA
2. **Designation:** Assistant Professor in Chemistry (W.B.E.S.)
3. **Qualification:** M.Sc. (IIT Kanpur);  
Ph.D. (Indian Association for the Cultivation of Science; CU)
4. **Specialization:** Organic and Organometallic Chemistry
5. **E-mail address:** d jyoti07@gmail.com
6. **Date of Joining in W.B.E.S.:** 27.05.2015
7. **Date of Joining in this College:** 27.05.2015
8. **Total Teaching experience in College level:** 3+ years
9. **Research interests:** Photoredox transition metal catalysis
10. **Title of thesis (Ph.D.) with year:** “Variation of Structural Motifs in Phosphine Ligands for Efficiency in Palladium Catalyzed Coupling Reaction” (2015)
11. **Research guidance:** Nil
12. **Research Projects (Completed and ongoing):** Nil
13. **List of publications:**

**Published papers in Journals**

1. “3-Indolylphosphines as Ligand for Palladium in Suzuki-Miyaura Coupling Reaction of Chloroarenes: Substituent Effects”, **D. Saha**, R. Ghosh and A. Sarkar, *Tetrahedron*, **2013**, 69, 3951-3960 [ISSN 0040-4020; **IF: 2.64**].
  2. “A ‘Hemilabile’ Palladium–Carbon Bond: Characterization and Its Implication in Catalysis”, **D. Saha**, R. Verma, D. Kumar, S. Pathak, S. Bhunya and A. Sarkar, *Organometallics*, **2014**, 33, 3243-3246 [ISSN 0276-7333; **IF: 4.12**].
  3. “Palladium-mediated Coupling Reaction with Aryl Chlorides: Steric vis-à-vis Electronic Influence of Phosphines on Biaryl Motif”, **D. Saha**, R. Ghosh, A. K. Mandal, A. Sarkar, *J. Organomet. Chem.*, January, **2015**, 776, 89-97 [ISSN 0022-328X; **IF: 2.17**].
  4. “Aerobic Direct C(sp<sup>2</sup>)-H Hydroxylation of 2-Arylpyridines by Palladium Catalysis Induced with Aldehyde Auto-Oxidation”, P. Das, **D. Saha**, D. Saha and J. Guin, *ACS Catal.*, June **2016**, 6, 6050-6054 [ISSN 2155-5435; **IF: 9.312**].
14. **Membership of Learned Societies/ Editorial Boards, etc.:** Life Member of Indian Association for the Cultivation of Science

15. **Patents:** Nil

16. **Awards:**

1. Received "**Young Scientist Award**" for **presenting a paper (oral presentation)** entitled "*Ligand 'Hemilability'-How important it is?*" in the **National Symposium** on '*Recent Advances in Chemistry & Industry (2015)*' organized by the **Indian Chemical Society**, Kolkata on **31<sup>st</sup> July - 1<sup>st</sup> August, 2015**.
2. Received "**Best Poster Award**" for **presenting a Poster** entitled "*The role of hemilabile Pd-C bond in C-C cross-coupling reaction*" in the **National Seminar** on '*Enthralling Facets of Molecular Manifestation in Chemical Sciences*' organized by Bidhannagar College, Salt lake on **15<sup>th</sup> -16<sup>th</sup> September, 2016**.

17. **Other notable activities:**

1. Acted as a **Resource person** to "create an interest in Science among the students" in the **District level Science Fair**, organized by Vidyanagar G.D. Vidyamandir, Vidyanagar, Bardhaman, in collaboration with the Department of Science and Technology, Govt. of West Bengal from **20<sup>th</sup> - 22<sup>nd</sup> January, 2016**.
2. Acted as **Joint Convener** of "*Initiation*", **Inter-college Chemistry Quiz competition** (Nadia and Murshidabad districts), organized by the Department of Chemistry, Krishnagar Government College on **25<sup>th</sup> January, 2018**.

18. **A) Participation in Seminars/Symposia/Conferences/Workshops:**

1. **Presented a Poster** entitled "*Characterization of Pd-C bond*" in the One-day **National Seminar** on '*Recent Advances in Chemistry*' organised by Sripat Singh College, Murshidabad on **21<sup>st</sup> December, 2015**.
2. Participated in the **Science Academies' Lecture Workshop** on '*Basic Chemistry for Advanced Future*' organized by Dept. of Chemistry, Chakdaha College on **19<sup>th</sup> - 20<sup>th</sup> January, 2018**.

**B) Participation in OP/RC:**

Participated in the UGC sponsored **Orientation Programme** (OP-64) organized by UGC-HRDC, Jadavpur University from **6<sup>th</sup> February to 4<sup>th</sup> March, 2017**.