



**Dr. Partha Pratim Das**

Assistant Professor  
Dept. of Chemistry  
Magadh University, Bodh Gaya  
Pin 824234

**Date of Birth:** 4<sup>th</sup> April, 1987

**Phone No.-** +91-7607481169/ +91-7001862818

**Email Id.-** [mail.to.parthapratimdas@gmail.com](mailto:mail.to.parthapratimdas@gmail.com)  
[parthapratimdasmu@gmail.com](mailto:parthapratimdasmu@gmail.com)

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**Academic Qualifications:**

Course	Institute Name	Board/University
Bachelor of Science	Ramakrishna Mission Residential College, Narendrapur, WB	University of Calcutta, West Bengal, India
Master of Science (Chemistry)	Indian Institute of Technology Guwahati	Autonomous
Ph.D. (Chemistry)	Indian Institute of Technology Kanpur	Autonomous

**Ph. D. Thesis Title:**

Transition Metal Complexes of Pyridine/Pyrazine Amide Acyclic and Cyclic Ligands. Structures and Redox Activity

**Area of Research:**

- Coordination Chemistry
- Bio-mimetic Chemistry
- Supramolecular Chemistry

**Memberships:**

1. Indian Science Congress Association (Life Member)
2. IUPAC (Affiliated Membership - 2018)
3. The Association of Chemistry Teachers (Life Member)
4. Indian Society of Chemists and Biologists (Life Member)
5. Researchers Society of Chemical Sciences, India (Life Member)
6. Society for Materials Chemistry (Life Member)
7. American Peptide Society (Life Member)

**Editorial Board:**

1. Member, Editorial Board of *Science Journal of Analytical Chemistry* (Science Publishing Group), [Oct, 2018 – Dec, 2020]
2. Member, Editorial Board of *Science Journal of Chemistry* (Science Publishing Group), (21<sup>st</sup> April, 2021 - )

## **Reviewer Committee Member:**

1. Inorganic Chemistry Communications
2. Karbala International Journal of Modern Science
3. Science Journal of Analytical Chemistry
4. International Journal of Basic and Applied Sciences

## **Research Experiences:**

1. Ph. D. on “**Transition Metal Complexes of Pyridine/Pyrazine Amide Acyclic and Cyclic Ligands. Structures and Redox Activity**” under the supervision of **Prof. R. N. Mukherjee, Professor and Former HOD of Dept. Of Chemistry, IIT Kanpur and Former Director of IISER Kolkata.**
2. M. Sc. thesis work under the supervision of **Professor A. T. Khan, Professor and Former HOD of Dept. of Chemistry, IIT Guwahati** on “**Synthesis of Active Amino Derivatives using a Sulfur Based Catalyst**”.
3. 2-Month Summer project under supervision of **Prof. Gopal Das, Professor, IIT Guwahati, Guwahati,** on “**Supramolecular Host-Guest Chemistry of 2-alkyl Benzimidazol Amphiphiles**”.

## **Research Publication:**

1. “New Model Complexes for the NiP Site of Acetyl-CoA Synthase/CO Dehydrogenase: Structure, Electrochemistry and CO Reactivity”. *Inorg. Chem.* 2018, 57, 13713–13727.
2. “Cu(II)-*t*Bu-PHOX Catalyzed Enantioselective Malonate Addition onto 3-Hydroxy 2-Oxindoles: Application in the Synthesis of Dimeric Pyrroloindoline Alkaloids”. *Chem. Comm.*, 2018, 54, 7963-7966.
3. “Mixed Valence Copper-sulfur Clusters of High Nuclearity: A Cu<sub>8</sub> Wheel and Cu<sub>16</sub> Nanoball”. *Chem. Comm.* 2017, 53, 3334-3337.
4. “Electron transfer mechanism of catalytic superoxide dismutation via Cu(II/I) complexes: evidence of cupric–superoxo/–hydroperoxo species”. *Dalton Trans.*, 2016, 45, 11898-11910.
5. “Cobalt(II), nickel(II) and copper(II) complexes of a hexadentate pyridine amide ligand. Effect of donor atom (ether vs. thioether) on coordination geometry, spin-state of cobalt and M<sup>III</sup>–M<sup>II</sup> redox potential”. *Dalton Trans.*, 2011, 40, 10758-68.

6. "Challenges in higher education during and after covid-19 pandemic in India". *J. Phys.: Conf. Ser.* **1797** 012065, International Online Conference on Engineering Response to COVID-19 (IOCER-COVID-19) 2020.
7. "Transition Metal-Catalyzed Regioselective Direct C-H Arylations Using Quinone Diazides as an Arylating Agent: A Mini Review" Accepted for publication in "*Mini-Reviews in Organic Chemistry*" 2022, xx, xxxx-xx.
8. "Spectral properties of Ni(II) complex of a tridentate pyridine-amide ligand with appended ether functionality [n-(2-Methoxyphenyl)picolinamide]: Theoretical and Experimental studies" Accepted for publication in *J. Phys.: Conf. Ser.* 2022, xx, xxxx-xx.
9. "DFT and experimental study of electronic, absorption and FT-IR spectral properties of Cu(II) complex of a pyridin-amide ligand with appended ether functionality" Accepted for publication in *J. Phys.: Conf. Ser.* 2022, xx, xxxx-xx.

### **Book Chapter:**

1. "Applications of Polymeric Reagents in Organic Synthesis" in the book "Recent Trends in life science & Material science", Published by Horizon Books (A division of Ignited Minds Edutech Pvt. Ltd.) ISBN: 978-93-91150-32-7.

### **Award:**

Research Excellence award 2021 by Institute of Scholars, Accredited by UASL.

### **Orientation Program:**

Participated in the **81<sup>st</sup> Orientation Program, Patna University**, held between 24-11-2018 to 21-12-2018 and obtained Grade 'A'.

### **Refresher Course:**

1. Participated in the **Refresher Course on "Recent Advances in Chemical Sciences"**, held between 17-08-2020 to 29-08-2020 by **UGC-HRDC Dr. Hari Singh Gaur Vishwavidyalaya, Sagar**.
2. Participated in the "**Refresher Course in Chemistry**", held between 08-07-2022 to 22-07-2022 by **UGC-HRDC Kumaun University, Nainital**.

### **Ph. D. Research Scholars:**

02 (on-going)

## **Training/Skill Development Programs:**

1. One Week **“Faculty Development Program”** on **“Multimedia enriched e-Content Development”**, by Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, University of Delhi under the (PMMMNMTT) of MHRD, Govt. of India.
2. One Online Week **“Faculty Development Program”** on **“Transformational Experiences in Higher Education”** by Teaching Learning Center, Indian Institute of Technology (BHU), Varanasi, U.P. India, Supported by (PMMMNMTT) of MHRD, Govt. of India.
3. One Week **“Faculty Development Program”** on **“Development of Careers in Higher Education in India in the 21st Century”** by Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, University of Delhi under the (PMMMNMTT) of MHRD, Govt. of India in collaboration with St. John’s College, Agra.
4. One Week **“Faculty Development Program”** on **“Development and Management of MOOCs and Online Courses using LMS – Moodle”** by Guru Angad Dev Teaching Learning Centre (GAD-TLC), SGTB Khalsa College, University of Delhi under the (PMMMNMTT) of MHRD, Govt. of India.
5. One week **“Short Term Training Programme”** on **“Development of Laboratory Instruction”** by National Institute of Technical Teacher’s Training and Research (NITTTR), Kolkata of MHRD, Govt. of India.
6. **“Short Term Course”** on **“Renewable Energy”** by UGC-Human Resources Development Centre (Academic Staff College) Osmania University, Hyderabad, Telangana, India
7. **“Online Certificate course”** on **“Risk Management of Biological and Cascading Hazards: In Context Pandemics”** by Jointly by IIT Roorkee, Indo-Japan Laboratory, Japan, Arise India and RIKA

## **Workshops Attended:**

1. **‘Workshop on Column Structure and Chemistry (Merck) and Mass Spectrometry (Agilent)’** November 2, 2015, Department of Chemistry, IIT Kanpur.
2. **‘One Day Workshop On Capacity Building of Teachers, Researchers/ Students Through Research Projects’** March 31, 2018, Magadh University, Bodh-Gaya.
3. One Day online Workshop on **“Empowering Effective Scientific Research By Harnessing The Power Of Web Of Science & Managing References Using Endnote”** May 20, 2020, Guru Nanak Dev University Amritsar, School Of Education, Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching of MHRD, Govt. of India in collaboration with Clarivate Analytics.

4. Two Days Online National Workshop (equivalent to a regular National Workshop) **“Online Teaching-Learning using LMS-MOODLE”** 17<sup>th</sup>-18<sup>th</sup> July 2020, Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD, Govt. of India.

#### **Invited Lecture/Resource Person:**

- Seminar on **“Chemistry in Everyday Life”** at Gautam Buddha Mahila College, Gaya (A constituent unit of Magadh University, Bodh-gaya) (4<sup>th</sup> August, 2018).
- Webinar on **“Effect of donor atom (ether vs. thioether) on coordination geometry, spin-state of cobalt and M<sup>III</sup>-M<sup>II</sup> redox potential”** at Balagarh Bijoy Krishna Mahavidyalaya, Balagarh, West Bengal (26<sup>th</sup> July, 2020).
- Webinar on **“Effects of donor atom on coordination geometry, spin-state of and redox potential”**, sponsored by TEQIP II, Motihari College of Engineering, Motihari in collaboration with Government Engineering College, Sheohar (2<sup>nd</sup> October, 2020).
- **Student Development Program (SDP) on “Virtual Labs in Chemistry”** organized by IQAC, A. N. College, Patna (2<sup>nd</sup> July - 12<sup>th</sup> July, 2021).

#### **Paper/Oral Presentation:**

- **“International Online Conference on Engineering Response to COVID-19” (IOCER)** at JIS College of Engineering, Kalyani, West Bengal held on 8-9<sup>th</sup> October, 2020.
- International Web-conference **“Recent Trends on Chemistry and Environment 2021” (RTCE 2021)** organized by M. S. J. Govt. P. G. College, Bharatpur, Rajasthan on 5-6<sup>th</sup> March, 2021.
- 3<sup>rd</sup> **“National Conference on Frontiers of Modern Physics” (NCFMP-2021)** organised by the Department of Physics, School of Basic and Applied Sciences, Adamas University, West Bengal held online on 26-27<sup>th</sup> November, 2021.

#### **Conferences attended/Poster presented:**

1. **“Chemistry with multidentate pyridine amide ligands: Structures and Properties”**  
(Poster presentation)  
Partha Pratim Das, Sharmila Pandey, Akhilesh Kumar Singh, and R. N. Mukherjee  
**International Symposium on *Frontiers in Inorganic Chemistry (FIC-2010)***  
Indian Association for the Cultivation of Science (IACS), Kolkata, India  
(December 11-13, 2010)
2. **“Coordination chemistry of Ni(II) complexes of multidentate pyrazine amide ligand: Synthesis and Properties”** (Poster Presentation)  
Partha Pratim Das and R. N. Mukherjee  
**The Indian Science Congress Association (Patna Chapter)**

Magadh University, Bodh-Gaya  
(November 18-19, 2017)

3. **RSC/CRSI IIT Kanpur symposium on the Chemical Science** (13<sup>th</sup> September 2010), Indian Institute of Technology Kanpur India.
4. **Complex Chemical Systems**, November 2 – 3, 2015, Department of Chemistry, IIT Kanpur.
5. **Dynamics of Complex Chemical and Biological System (DCCBS 14)**, February 13 – 15, 2014, Department of Chemistry, IIT Kanpur.
6. **International Collaborative and Cooperative Chemistry Symposium (ICCCS)**, October 24 – 26, 2013, Department of Chemistry, IIT Kanpur.
7. **National Symposium on Radiation and Photochemistry (NSRP-2015)**, March 9-11, 2015, Department of Chemistry, IIT Kanpur.
8. **RSC – IIT Kanpur Symposium in Chemical Science**, November 23, 2015, Department of Chemistry, IIT Kanpur.
9. **Celebration of Chemistry (International Year of Chemistry 2011) @ IITK**, Department of Chemistry IIT Kanpur, India (December 3-5 2011).
10. **Minisymposium on Bioinorganic Chemistry**, Department of Chemistry, IIT Kanpur, India (November 9<sup>th</sup> 2009).

#### **Administrative Activities @ University:**

1. Assistant Controller of Examination
2. O. S. D. Examination (Ph. D.)
3. O. S. D. Examination (Confidential Section)
4. IQAC Member
5. Student Union Election Committee Member

#### **Events Organized:**

1. **Mini-symposium on “Frontiers in Chemical Sciences” at Indian Institute of Technology, Kanpur, India** (7<sup>th</sup> Sept, 2013).
2. Organizing volunteer for **DST Inorganic PAC Meeting, Group Monitoring Workshop and Conference on “Frontiers in Inorganic Chemistry”** April; 2-4, 2010, **Indian Institute of Technology, Kanpur, India.**
3. One day **Workshop on “Personality and Skill Development”** in cooperation with “Dainik Jagran” and “Gillette India” at **Anugrah Memorial College, Gaya** (28<sup>th</sup> March, 2018).
4. **Mini-symposium on “Sports; A Way of Life” at Anugrah Memorial College, Gaya** (25<sup>th</sup> August, 2018)
5. Two day **National Webinar on “Contemporary Concerns of English Studies in India”** 1<sup>st</sup> and 2<sup>nd</sup> August, 2020, **Anugrah Memorial College, Gaya** (A Constituent Unit of **Magadh University, Bodh-Gaya**)

6. Two day International “**Symposium on Applications of Thermal Analysis and Calorimetry – 2021**” [SATAC-2021], 21<sup>st</sup>-22<sup>nd</sup> December, 2021, **Dept. of chemistry, Magadh University, Bodh-Gaya.**

**Declaration:**

I do hereby declare that all the above statements and information are true according to best of my knowledge, and nothing is concealed.

18<sup>th</sup> July, 2022  
Gaya

Dr. Partha Pratim Das

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