



Curriculum Vitae of R. N. Mukherjee

Name: RABINDRA NATH MUKHERJEE

Date of Birth: April 19, 1953

Address:

Office:

Professor of Chemistry
Emeritus Fellow, Department of Chemistry
Indian Institute of Technology (IIT) Kanpur
Kanpur 208 016, Uttar Pradesh, INDIA
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Residence (Campus):

F/A D-402
IIT Kanpur Campus
Kanpur 208 016
Phone: +91 512 259 8947

Residence (Permanent):

Elita Garden Vista, Block 5, Flat # 11-01
Action Area III, New Town
P.O. Akandakeshari, Dt. (N) 24 Parganas
Kolkata 700 135, INDIA

Academic Qualification:

MSc (Specialization: Inorganic Chemistry), The University of Burdwan, Burdwan (1976)

PhD (Supervisor: Professor Animesh Chakravorty) (1978–1982)

Department of Inorganic Chemistry, Indian Association for the Cultivation of Science (IACS), Kolkata; The University of Calcutta, Kolkata (1983)

Positions Held:

Visiting Professor, Indian Institute of Technology–Indian School of Mines (Dhanbad), (2021–2023) (Offered)

Emeritus Fellow, Department of Chemistry, IIT Kanpur (2018–2021)

Director, Indian Institute of Science Education and Research (IISER) Kolkata (2012–2017)

Chair Professor, IIT Kanpur (Poonam and Prabhu Goel Chair) (2011–2012)

Head, Department of Chemistry, IIT Kanpur (2010–2012)

Higher Administrative Grade (HAG) Professor, Department of Chemistry, IIT Kanpur (2009–2018)

Professor, Department of Chemistry, IIT Kanpur (1995–2018)

Associate Professor, Department of Chemistry, IIT Kanpur (1993–1995)

Assistant Professor, Department of Chemistry, IIT Kanpur (1987–1993)

Post-doctoral Research Associate (in the laboratory of Professor Richard H. Holm) Harvard University, USA (1985–1987)

Post-doctoral Research Associate (in the laboratory of Professor Animesh Chakravorty), IACS, Kolkata (1983–1985)

Awards & Honors:

Fellow, Indian National Science Academy, New Delhi (2008)

Fellow, Indian Academy of Sciences, Bangalore (1999)

Fellow, Royal Society of Chemistry, UK (2003)

Selected for Outstanding Peer Reviewer for *Dalton Transactions*, published by the Royal Society of Chemistry (2020)

J. C. Bose National Fellowship, Department of Science & Technology, New Delhi (2008–2018)

Silver and Bronze Medal, Chemical Research Society of India, Bangalore (2011 and 2001, respectively)

Special Issue on the Occasion of 65th Birthday: Edited by Jeremy Smith, Rajeev Gupta, Andy S. Borovik (2019); <https://www.sciencedirect.com/journal/inorganica-chimica-acta/special-issue/10T12QH83CB>

Chair, Organizing Committee, Faraday Discussions (Virtual) on "Natural and artificial metalloenzymes" in 2022, under the aegis of the Royal Society of Chemistry.

Invited to write a book on 'Inorganic Chemistry: Principles and Properties' Publisher: World Scientific (2021)

Invited to write a book chapter on Copper Bio-Inorganic Chemistry, Publisher: World Scientific (2021)

Vice President, Chemical Research Society of India, Bangalore (2008–2014)

Professor Priyadarajan Ray Memorial Award for the Year 2010, Indian Chemical Society, Kolkata (2011)

Bimala Churn Law Memorial Lecture, Indian Association for the Cultivation of Science, Kolkata (2008)

A. V. Rama Rao Foundation Prize Lecture in Chemistry, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore (2005)

Ajit Memorial Lecture, Indian Association for the Cultivation of Science, Kolkata (1999)

Visiting Professor, Department of Chemistry, Stanford University, USA (2005–2006)

Membership of Editorial Boards:

Member, Editorial Board, Associate Editor, *Resonance* (Indian Academy of Sciences) (2021–2023)

Member, Editorial Advisory Board, *Inorganic Chemistry* (ACS) (2017–2019)

Member, Advisory Board, *Dalton Transactions* (RSC) (2008–2020)

Former Member, Editorial Board, *Inorganica Chimica Acta* (Elsevier) (2011–2018)

Former Member, Editorial Board, Indian Journal of Chemistry – Section A (NISCAIR) (2005–2007)

Visiting Appointments:

Short-Term Research Scholarship, Georg-August-Universität, Göttingen, Germany (2011)

Visiting Professor, Institut für Anorganische Chemie, Georg-August-Universität, Göttingen, Germany (2007)

Visiting Professor, Departament de Química, Universitat de Girona, Spain (2004)

The Royal Society of Chemistry Journals Grants for International Authors Award, UK (2001)

Institute-level Work:

Convener, Senate Educational Policy Committee, IIT Kanpur (2002–2003)
In-Charge, Facility for Ecological and Analytical Testing, IIT Kanpur (2000–2005)
Faculty-In-Charge, Glass Blowing Section, IIT Kanpur (1996–2005)

National/International Committee Work:

Member/Chairman, Program Advisory Committee on Inorganic Chemistry, under Science & Engineering Research Board (SERB), Department of Science & Technology, Government of India, New Delhi (2012–2013 / 2013–2015)

Member, Management Committee, KVPY, Indian Institute of Science, Bengaluru (2012–)

Member, Sectional Committee in Chemistry, Indian National Science Academy, New Delhi (2009–2011)

Member, Inorganic & Physical Chemistry Research Committee, Council of Scientific & Industrial Research, New Delhi (2011–2014)

Member/Chairman, SwarnaJayanti Fellowship Committee (Chemical Sciences), DST (2010 and 2011/2015)

Member, Chemical Sciences Research Committee, Council of Scientific & Industrial Research, New Delhi (2009–2011)

Member, Sectional Committee in Chemistry, Indian Academy of Sciences, Bangalore (2004–2006; 2013–2015)

Member, Research Advisory Committee, IISER Mohali (2008–2011)

Member, National Scientific Committee, 33rd International Chemistry Olympiad, Mumbai, India (July 6–15, 2001)

Member, S. P. Mukherjee Fellowship Committee, Council of Scientific & Industrial Research, New Delhi (2008 and 2011)

Member, Selection Committee for Nobel Laureates Meeting, Department of Science & Technology, Government of India, New Delhi (2009)

Member, Academic Council, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata – 700 118 (2017–)

Member, School Board, School of Chemistry, University of Hyderabad, Hyderabad (2009–2011)

Member, Finance Committee, National Institute of Biomedical Genomics, Kalyani (2013–2017)

Member, Indian Chemical Society (2014–2016)

Member, DST-INSA INSPIRE Program, INSA (2011–)

Planning Committee Member, International Conference on Coordination Chemistry (2004–2016)

International Committee Member, Asian Coordination Chemistry Conference (2007–)

Research Interest:

Synthetic coordination chemistry of transition-metal ions with designed organic ligands is central to our research work. Our research covers extensive synthesis and properties (spectroscopic, structural, and redox), and understanding of metal-ligand bonding characteristics to assign the correct description of the electronic structure (supported by Density Functional Theory calculations) of compounds containing open-shell organic ligands and paramagnetic metal ions, and also to study ligand-radical-driven reactivity.

Research Areas:

Notably, his group focuses on diversified problems. The research themes include:

(i) Bioinorganic synthetic model work: chemical modeling of tyrosinase and catechol oxidase [dioxygen activation and aromatic ring hydroxylation, phenoxo-/hydroxo-bridged dicopper(II) systems]; bio-inspired synthesis of binuclear oxo-/acetate-bridged dimanganese(III,III; III,IV; IV,IV) systems and reactivity studies of the dimanganese(IV) complex with phenols of relevance to photosystem II; synthesis and reactivity properties of metal-oxo/peroxo systems; demonstration of hydrolysis of biologically-relevant substrates (HPNP) by phenoxo-bridged Mn^{II}_2 , Co^{II}_2 , Ni^{II}_2 , Cu^{II}_2 , and Zn^{II}_2 complexes (detailed kinetic investigations to throw light on the mechanistic aspects); stability and properties of metal-coordinated phenoxyl radicals, including galactose oxidase

(ii) Stabilization of nickel(III) and nickel(IV) states; Cobalt-coordinated C–S(thioether) bond cleavage and Co–C bond formation; Stabilization of iron(III)/ruthenium(III)-coordinated *o*-benzosemiquinonato radical supported by deprotonated pyridine amide ligands; Synthesis and properties of ligand-bridged six-coordinate cobalt(III) and four-coordinate cobalt(II) complexes and also a series of hetero-bimetallic complexes

(iii) Metal-coordinated ligand-radicals: molecular and electronic structural investigation of metal-coordinated cation and anion radicals using *o*-aminophenol-based redox-active ligands and formation of radical-based C–N, C–O–C, and N–N bonds (benzo-triazole ring formation)

(iv) Discovery of a new class of $\text{Fe}^{\text{II}}\text{N}_6$ spin-equilibria systems, exhibiting interesting cooperativity phenomena

(v) Co–C bond formation [cobalt(III)-alkyl and cobalt(III)-dialkyl complexes] and investigation of their properties and stabilization of ligand-bridged dinickel(II), dicopper(II), nickel(II)-nickel(I) systems, supported by pyrazole-based chelating ligands

(vi) Magneto-structural studies of discrete binuclear, trinuclear, and oligonuclear transition metal complexes and coordination polymers; assembly and properties (structural and magnetic) of discrete high-nuclearity clusters and coordination polymers supported by (2-pyridyl)alkylamine-appended carboxylates/pyridine amide ligands in their neutral form

(vii) Synthesis of half-sandwich organometallic molecules and nucleophilic addition reactions onto the ruthenium(II)-coordinated benzene

(viii) Identification of non-covalent interactions from careful analysis of crystal packing, with emphasis on C–H \cdots Cl hydrogen-bonding

Teaching:

Has taught a variety of undergraduate and postgraduate core/elective courses at the Department of Chemistry, Indian Institute of Technology Kanpur.

Core Courses: CHM101 (General Chemistry: Theory and Laboratory), CHM 201 (General Chemistry), CHM 341 (Introduction to Inorganic Chemistry), CHM 343 (Inorganic Laboratory), CHM 441 (Inorganic Chemistry – I), CHM 442 (Inorganic Chemistry –II), CHM 443 (MSc, Inorganic Laboratory), CHM 342A/ CHM 442A (Inorganic Chemistry –II)

Elective Courses: CHM 641 (Advanced Inorganic Chemistry–I), CHM 642 (Advanced Inorganic Chemistry–II), CHM 645 (Principles of Inorganic Chemistry), CHM 646/646A (Bioinorganic Chemistry), CHM 691/SE 343 (introduced this course, treated as a Science Elective, “Frontiers in Inorganic Chemistry”), CHM 691A (Frontiers in Inorganic Chemistry)

Received Commendations from the Directors, IIT Kanpur for teaching excellence several times

Has taught undergraduate and postgraduate core/elective courses at IISER Kolkata

Core Course: CH1101 – Elements of Chemistry

Elective Courses: CH4201 – Bioinorganic Chemistry, CH4104 – Important Perspectives of Inorganic/Organic Chemistry

Students Trained:

PhD

1. K. Ramesh (1987–1991); 2. Manabendra Ray (1988–1992);
3. Samiran Mahapatra (1989–1992); 4. Tapan K. Lal (1991–1996);
5. Debalina Ghosh (1993–1997); 6. Apurba K. Patra (1993–1999);
7. Rajeev Gupta (1995–2000); 8. V. Balamurugan (1999–2004);
9. Jhumpa Mukherjee (1999–2004); 10. Akhilesh K. Singh (2002–2007);
11. Vibha Mishra (2002–2007); 12. Wilson Jacob (2003–2007)
13. Haritosh Mishra (2003–2008); 14. Sukanta Mandal (2003–2009);
15. Himanshu Arora (2004–2009); 16. Atasi Mukherjee (2004–2009);
17. Anuj K. Sharma (2005–2009); 18. Anindita De (2005–2009);
19. Sharmila Pandey (2006–2010); 20. Saleem Javed (2007–2014);
21. Ravindra Singh (2007–2014); 22. Suman K. Barman (2008–2014);
23. Amit Rajput (2009–2015); 24. Partha Pratim Das (2009–2017);
25. Akram Ali (2010–2017); 26. Arunava Sengupta (2011–2019);
27. Akhilesh Kumar (2011–2020)

PhD

At IIT Kanpur: Currently working

1. Shashi Kant (2011–); 2. Indresh Verma (2014–); 3. Sayeed Ahmed (2017–)

At IISER Kolkata: Currently working

1. Arup K. Das (2013–); 2. Narottam Mukhopadhyay (2013–); 3. Anannya Saha (2014–);
4. Munirathnam, M. (2014–); 5. Saumitra Bhowmik (2015–)

Post-doctoral Research Associate

At IIT Kanpur

1. Dr. Nishi Gupta (1990–1992); 2. Dr. Zahida Shirin (1992–1995);
3. Dr. Shubha Singh (2001–2003)

Bachelor/Master of Science Projects: 2/52 (IIT Kanpur); 38 (other institutes)

At IIT Kanpur:

MSc (2 years) Students:

1. Rajesh Manchanda (1989); 2. Anupam Talapatra (1990); 3. Subhasish Mukerjee (1990);
4. Debnath Bhuniya (1991); 5. Pampa Das (1992); 6. Ranajeet Ghose (1992); 7. Sangita Ghosh (1993);
8. Pulakesh Mukherjee (1994); 9. Surajit Pal (1994); 10. Suman (1995); 11. Viswanath Mahadevan (1995);
12. Rajdeep Das (1996); 13. Rupa Mukhopadhyay (1996); 14. Pratip K. Bhattacharya (1997);
15. Sumitra Mukhopadhyay (1997); 16. Diptabhas Sarkar (1998); 17. Rajeev Hotchandani (1998);
18. Manami Roychowdhury (1999); 19. Pramit K. Chowdhury (1999); 20. Arani Chanda (2001);
21. Aruna Sathyamurthy (2001); 22. Ritika Uppal (2002); 23. Supratim Giri (2002);
24. Bappaditya Samanta (2004); 25. Rajib Mondal (2005); 26. Sounik Saha (2005);
27. Tarun K. Bera (2005); 28. Ritobroto Sengupta (2008); 29. Ranadeep Talukdar

(2009); 30. Biplab Dutta (2010); 31. Mainak Mitra (2010); 32. Pradip K. Das (2010); 33. Pradyumna K. Pradhan (2010); 34. Sourav Biswas (2010); 35. Subrata Ghosh (2010); 36. Akash K. Basak (2011); 37. Arkalekha Mandal (2011); 38. Debanjan Dhar (2011); 39. Priyabrata Ghana (2011); 40. Arun Maji (2012); 41. Papri Sutar (2012); 42. Sayan Saha (2012); 43. Shanti Gopal Patra (2012); 44. Sneha Shah (2012); 45. Srobona Sen (2012); 46. Amrita Chauhan (2017); 47. Ajay Tamang (2017); 48. Ankur Jyoti Konwar (2017); 49. Soumojyati Proadhan (2019); 50. Sandipan Maji (2020); 51. Rahul Naskar (2020); 52. Rajkumar Das (2021)

BSc (4 years) Students: 1. Udit Sanchari (IIT Kanpur, 2018); 2. Pulkit Jain (IIT Kanpur, 2018)

Integrated M.Sc. (5 years) Students:

1. Puneet Gupta (2008); 2. Ashish Tiwari (2008)

Other Institutes:

A. 1. Mini Kuriakose (MG University, Kottayam, Kerala; 2002); 2. Sunil Varughese (MG University, Kottayam, Kerala; 2002); 3. Roby Kurian (MG University, Kottayam, Kerala; 2002); 4. Sujith S. (MG University, Kottayam, Kerala; 2002); 5. Abdul Malik (MG University, Kottayam, Kerala; 2003); 6. Jibi. E. (MG University, Kottayam, Kerala; 2003); 7. Prasanth K. P. (MG University, Kottayam, Kerala; 2003); 8. Adarsh N. N. (MG University, Kottayam, Kerala; 2003); 9. Anumol E. A. (MG University, Kottayam, Kerala; 2005); 10. Jasmin Joseph (MG University, Kottayam, Kerala; 2005); 11. Renjith Kumar P. V. (MG University, Kottayam, Kerala; 2005)

B. 1. Jishnu Chakraborty (C. S. J. M University, Kanpur; 2004); 2. Vinay Khandelwal (S.G.T.B. Khalsa College, University of Delhi, 2007; sponsored by Indian Academy of Sciences, Bangalore); 3. Munna Prasad Gupt (D.A.V. College, Kanpur; 2007); 4. Manasa Rath (Miranda House, University of Delhi, 2008; sponsored by Indian Academy of Sciences, Bangalore); 5. Manmantha Mahato (S. K. Porwal College, Kamptee, Nagpur University, Maharashtra; 2008); 6. Saswati Sarkar (S. K. Porwal College, Kamptee, Nagpur University, Maharashtra; 2008); 7. Shrabanti Mukherjee (S. K. Porwal College, Kamptee, Nagpur University, Maharashtra; 2008); 8. M. Hariharan (V. H. N. S. N. College, Virudhunagar, 2009; sponsored by Indian Academy of Sciences, Bangalore); 9. Firoz Khan (Banaras Hindu University, 2011; sponsored by Indian Academy of Sciences, Bangalore); 10. Rishabh Garg (NISER, Bhubaneswar; 2011; sponsored by Indian Academy of Sciences, Bangalore); 11. Soham Chakraborty (IISER Kolkata, 2018; sponsored by KVPY); 12. Nilotpall Goswami (Nalbari College, Gauhati University, 2018; sponsored by the Indian Academy of Sciences, Bengaluru); 13. Kumar Gaurav (IISER Berhampur, 2019; sponsored by DST-INSPIRE); 14. Uddipan Bhattacharya (IISER Berhampur, 2019; sponsored by DST-INSPIRE)

At IISER Kolkata:

1. Anshula Mondal (IISER Kolkata; 2016; Sponsored by KVPY); 2. Dipannita Ghosh (IISER Kolkata; 2016; Sponsored by DST-INSPIRE); 3. Surasree Rakshit (IISER Kolkata; 2016; Sponsored by DST-INSPIRE)

Other Institutes:

1. Debanjana Chakraborty (IIT Kharagpur, 2013; sponsored by DST-INSPIRE);
2. Narottam Mukhopadhyay (University of Kalyani, Kalyani West Bengal, 2013; sponsored by DST-INSPIRE);
3. Neha Chauhan (NISER Bhubaneswar, 2013; sponsored by DST-INSPIRE);
4. Prerna Yadav (NISER Bhubaneswar, 2014; sponsored by DST-INSPIRE);
5. Aswin Vijay (NIT Trichy; 2015; Sponsored by IAS-NASI-INSA Fellowship)
6. Ranit Pandey (IIT Kharagpur; 2015; Sponsored by DST-INSPIRE);
7. Sanchayita Mukherjee (University of Hyderabad, Hyderabad; 2016);
8. Subrata Kundu (IIT Guwahati; 2016);
9. Nilanjana Goswami (St. Xavier's College, Kolkata; 2017);
10. Chinmoy Das (IIT Kharagpur; 2017; Sponsored by DST-INSPIRE)

Sponsored Research (National and International): 17

Received funding from the following agencies:

Science & Engineering Research Board (SERB) / Department of Science & Technology (DST)
Council of Scientific & Industrial Research (CSIR)
Volkswagen Foundation, Germany
Indo-French Centre for the Promotion of Advanced Research (IFCPAR)
Swedish Research Links; DST-Ukraine; DST-DFG

a) DST Project (No. SERB/F/12014/2018-2019) (2019–2022)

Metal-Coordinated Ligand Radicals. Molecular and Electronic Structure, and Reactivity
Rs. 19,91,000/-

b) DST J. C. Bose (No. SR/S2/JCB-79/2007) (2008–2018)

Rs. 1,26,04,456/-

c) DST Project (No. SR/S1/IC-30/2009) (2009 – 2012)

Metal-Coordinated Radicals. Bioinorganic and Inorganic Perspectives
Rs. 28,46,000/-

d) DST Project (No. SR/S1/IC-29/2004) (2005–2008)

Hydrolysis of Esters by Metal Complexes of Designed Ligands: Inorganic and Bioinorganic Perspectives
Rs. 23,05,200/-

e) DFG-DST (INT/FRG/DFG/P-33/2010) with Prof. F. Meyer (Institut für

Anorganische Chemie, Georg-August-Universität, Göttingen, Germany) (2010–2012)

Combining Bimetallic Scaffolds and Metal-Coordinated Phenoxy-Radicals for Multi-Electron Transformations: A Step Beyond Nature

Rs. 14,39,600

- f) India and Ukraine Joint Science & Technology Project
(DST: INT/UKRAINE/UKR-16/2006) with Prof. I. Fritsky (University of Kiev,
Ukraine) (2008–2011)
Novel Biomimetic Catalysts Based on Copper(III) Complexes
Rs. 4,11,000 (travel and per-diem)
- g) Swedish Research Links Project with Prof. Ebbe Nordlander (University of Lund, Sweden)
(2008–2011)
Modeling of Dinuclear Active Sites in Metalloproteins (Planning Grants) and Synthesis and
Reactivity Studies of Model Complexes for Dinuclear Active Sites in Metalloenzymes
Rs. 17,22,708 (excluding expenditures on travel to Lund two times and living expenses)
- h) Indo-French Centre for the Promotion of Advanced Research (IFCPAR),
New Delhi sponsored Project with Prof. Francois Varret (Laboratoire de
Magnétisme et d'Optique CNRS-Université de Versailles, France (2006-2009)
Spin Transition in Fe(II) & Cyano-Bridged Molecular Magnets
Rs. 6,56,390 (excluding expenditures on travel to France two times and living expenses)
- i) DST Project (2001–2004)
Activation of Molecular Oxygen by Manganese(II), Iron(II), and Copper(I) Complexes of
Designed Dinucleating Ligands. Inorganic and Bioinorganic Perspectives
- j) DST Project (1996–2000)
Magnetostructural Correlations in Novel Ligand-Bridged Dimetal Systems. Dicopper(II)
Complexes of Biological Relevance
- k) DST Project (1992–1996)
Synthesis and Characterization of Novel Transition Metal Complexes. Relevance to
Metallobiomolecules with Intrinsic Active Sites
- l) DST Project (1989–1992)
Binuclear Iron Centers in Biology: Model Compound Studies
- m) DST Project (1989–1991)
Probe into the Structure of the Active Site of Binuclear Iron Centers in Hemerythrin: A Synthetic
Analogue Approach
- n) Council of Scientific & Industrial Research (CSIR), India Project (2004–2007)
Recognition and Sensing of Anionic Guest Species by Transition Metal Receptors
- o) CSIR Project (1999–2002)
Dicopper(II) Complexes: Synthesis, Characterization and Catecholase Activity

p) CSIR Project (1993–1997)

Synthesis and Characterization of Half-Sandwich Complexes having $\text{Ru}(\eta^6\text{-C}_6\text{H}_6)_2^+$ Moiety: A Conceptual Link between Classical Werner Complexes and Organometallic Molecules

q) CSIR Project (1988–1992)

Stabilization of the $\text{Fe}^{\text{IV}}=\text{O}$ Moiety Present in Horseradish Peroxidase: A Synthetic Analogue Approach

Organization of Course/Conference:

Celebration of Chemistry@IITK: International Year of Chemistry-2011, Department of Chemistry, Indian Institute of Technology Kanpur (December 03-05, 2011) (Organized along with Drs. Pratik Sen, J. K. Bera, and M. L. N. Rao)

Organized ‘Department Day’, IIT Kanpur on October 25, 2010, as a part of Golden Jubilee Celebration of Indian Institute of Technology Kanpur (organized along with students, staff, and faculty members of Department of Chemistry)

Institute of Research Development & Training (Technical Education Department) U.P. Kanpur – Sponsored Short Term Training Course on *Latest Developments in Chemistry* for Diploma in Engineering Courses: Applied Chemistry (February 25-28, 2004)

Indian Academy of Sciences, Bangalore–Sponsored Refresher Course on *Frontiers in Inorganic Chemistry*, Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur (December 18-31, 2003)

Editorial Work:

Acted as a Co-Guest Editor (with Tim Storr, Simon Fraser University, Canada) for the Forum Issue in *Inorganic Chemistry* (American Chemical Society) on ‘Applications of Metal Complexes with Ligand-Centered Radicals’, *Inorg. Chem.* **2018**, *57*, Issue 16 (9577–10480).

Guest Editor along with Prof. C. P. Rao, Department of Chemistry, Indian Institute of Technology Bombay, Powai and Prof. S. Mazumdar, Department of Chemical Sciences, Tata Institute of Fundamental Research, Mumbai: Special Issue on Bioinorganic Chemistry Dedicated to Professor Samaresh Mitra on the occasion of his 70th birthday, *Indian J. Chem.* **2011**, *50A*, 339–547.

Guest Editor along with Prof. Akhil R. Chakravarty, Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bangalore: Special Issue Dedicated to Professor Animesh Chakravorty on the occasion of his 75th birthday, *Inorg. Chim. Acta* **2010**, *363*, 2693–3138.

Guest Editor, Special Thematic Issue on Bioinorganic Chemistry, *Proc. Indian Natl. Sci. Acad., Part A, Physical Sciences* **2004**, 70, 267–398.

Reviewing/Refereeing Work for the Journals:

Inorganic Chemistry, Chemical Communications, Dalton Transactions, RSC Advances, New Journal of Chemistry, Physical Chemistry Chemical Physics, CrystEngComm, Catalysis Letters, Energy & Environmental Science, Angewandte Chemie International Edition, Chemistry – A European Journal, European Journal of Inorganic Chemistry, Inorganica Chimica Acta, Inorganic Chemistry Communications, Journal of Molecular Structure, Journal of Hazardous Materials, Catalysis Communications, Solid State Sciences, Journal of Coordination Chemistry, Australian Journal of Chemistry, Indian Journal of Chemistry–Section A, Indian Journal of Chemical Technology, Journal of Chemical Sciences, Current Science, Journal of Indian Chemical Society

Membership in Professional Society:

Member, American Chemical Society (1999–)

Member, Royal Society of Chemistry (2003–)

Life Member, Chemical Research Society of India (1999–)

Life Member, Indian Association of Chemistry Teachers (2007–)

List of Publications (in reverse chronological order):

(154) M. Manda, H. Arora, A. Sengupta, Shashi Kant, F. Lloret, and R. N. Mukherjee, “Dimeric Mn(II), Co(II), Ni(II) and Cu(II) Complexes of a Common Carboxylate-Appended (2-Pyridyl)alkylamine Ligand: Structure, Magnetism and DFT Study”, *New J. Chem.* **2021**, under revision.

(153) A. Ali, A. Sengupta, F. Lloret, and R. N. Mukherjee, “Switchover From Ni^{II}N₂O₂ to Ni^{II}N₂O₂S₂ Coordination Triggered by the Redox Behaviour of a Non-Innocent 2-Aminophenolate Ligand”, *J. Chem. Sci.* **2021**.

(152) A. Saha, A. Rajput, P. Gupta, and R. N. Mukherjee, “Probing Electronic Structure of [Ru(L¹)₂]^Z (z = 0, 1+ and 2+) (H₂L¹: a Tridentate 2-Aminophenol Derivative) Complexes in Three Ligand Redox Levels”, *Dalton Trans.* **2020**, 49, 15355–15375.

(151) J. Mukherjee, A. Sengupta, and R. N. Mukherjee, “Five-Coordinate [(L²)₂Cu^{II}(X)]^{z+} (X = H₂O, z = 2; X = N₃⁻, SCN⁻, NO₂⁻, MeCO₂⁻, Cl⁻, Br⁻, z = 1; L² = 1-Benzyl-[3-(2-pyridyl)]pyrazole) Complexes: Structural Index, EPR and Redox Potential Correlations”, *Inorg. Chim. Acta* **2020**, 513, 119899.

- (150) R. N. Mukherjee, “Assigning Ligand Redox Levels in Complexes of 2-Aminophenolates: Structural Signatures”, *Inorg. Chem.* **2020**, *59*, 12961–12977 (Viewpoint).
- (149) A. Rajput, A. K. Sharma, S. K. Barman, A. Saha, and R. N. Mukherjee, “Valence Tautomerism and Delocalization in Transition Metal Complexes of *o*-Aminophenolates and Other Redox-Active Ligands. Some Recent Results”. *Coord. Chem. Rev.* **2020**, *414*, 213240.
- (148) A. Kumar, A. Sengupta, S. Demeshko, and R. N. Mukherjee, “Structure, Magnetism and Reactivity of a $\{\text{Mn}^{\text{III}}(\mu\text{-O})_2\text{Mn}^{\text{IV}}\}^{3+}$ Core Towards Oxidation of Phenols, *Polyhedron* **2019**, *172*, 226–235. (Invited Article)
- (147) A. K. Das, A. De, P. Yadav, F. Lloret, and R. N. Mukherjee, “ Cu^{II}_2 , Cu^{II}_4 and Cu^{II}_6 Complexes with 3-(2-Pyridyl)pyrazolate. Structure, Magnetism, and Core Interconversion”, *Polyhedron* **2019**, *171*, 365–373.
- (146) S. K. Barman, J. Cano, F. Lloret, and R. N. Mukherjee, “Single-Molecule-Magnet $\text{Fe}^{\text{II}}_4\text{Fe}^{\text{III}}_2$ and Antiferromagnetic Fe^{III}_4 Coordination Clusters”, *Inorg. Chem.* **2019**, *58*, 8086–8099.
- (145) A. Rajput, A. Saha, S. K. Barman, F. Lloret, and R. N. Mukherjee, “[$\text{Cu}^{\text{II}}\{(\text{L}^{\text{ISQ}})^-\}_2$] (H_2L : Thioether-Appended *o*-Aminophenol Ligand) Monocation Triggers Change in Donor Site from N_2O_2 to $\text{N}_2\text{O}(2)\text{S}$ and Valence-Tautomerism”, *Dalton Trans.* **2019**, *48*, 1795–1813.
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Special Meetings Attended Abroad

Editorial Advisory Board Meeting of *Inorganic Chemistry*, ACS Meeting, New Orleans (March 18, 2018)

Editorial Advisory Board Meeting of *Inorganic Chemistry*, ACS Meeting, San Francisco (April 2, 2017)

Invited Lectures in Conference/Symposium/Workshop/Summer School/Winter School:

Abroad

"International Conference on Coordination Chemistry (ICCC42)", Brest, France (July 3-8, 2016)

3rd EUChEMS Inorganic Chemistry Conference (EICC-3), Wrocław, Poland (June 28-July 1, 2015)

"International Conference on Coordination Chemistry (ICCC41)", Singapore (July 21-25, 2014)

"ZiNG Conference on Bioinorganic Chemistry", Lanzarote, Spain (February 19-22, 2013)

"International Conference on Coordination Chemistry (ICCC40)", Valencia, Spain (September 9-13, 2012)

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"European Biological Inorganic Chemistry (EUROBIC10)" Conference, Thessaloniki, Greece (June 22-26, 2010)

"The 4th Asian Biological Inorganic Chemistry Conference (AsBIC-IV)", Jeju, Korea (November 10-13, 2008)

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“International Conference on Coordination Chemistry (ICCC37)”, Cape Town, South Africa (August 13-18, 2006)

“Crystal Engineering Discussion 2004: New Trends in Crystal Engineering”, University of Nottingham, UK; Invited to prepare a paper for publication in *CrystEngComm* (September 8-10, 2004)

“International Conference on Coordination Chemistry (ICCC36), Merida, Mexico (July 18-23, 2004)

227th American Chemical Society National Meeting in Anaheim, CA, as part of the Symposium on ‘Non-Heme Iron Chemistry in Biology’ (March 28-April 1, 2004)

“Singapore International Chemical Conference II: Frontiers in Chemical Design and Synthesis”, Singapore (December 18-20, 2002)

216th American Chemical Society National Meeting in Boston, Massachusetts, as part of the Symposium on “Multinuclear Enzymes in Oxygen Metabolism” (August 23-27, 1998)

Member of the Official Indian delegation of the Indo-Russian Symposium on Structural Inorganic Chemistry and Organometallic Chemistry, Moscow – Nizhny Novgorod, Russia (September 24-October 5, 1993)

205th American Chemical Society National Meeting in Denver, Colorado, as part of the Mini-symposium: Advances in Bioinorganic-II (March 28-April 2, 1993)

In India

‘International Conference (Virtual) on Recent Advancements in Chemical Sciences – 2021, J.C. Bose University of Science & Technology, YMCA, Faridabad, Haryana (July 14-16, 2021) (**Plenary Lecture**) (Invited)

‘Modern Trends in Inorganic Chemistry (MTIC-XVIII)-2019’, Indian Institute of Technology Guwahati (December 11-14, 2019) (December 11, 2019; **Plenary Lecture**)

‘Emerging Trends in Chemical Sciences-2019’, Aligarh Muslim University (February 23-24, 2019)

7th National Symposium on Advances in Chemical Sciences, Guru Nanak Dev University, Amritsar, March 26-27, 2018 (March 26, 2018)

One Day Symposium on ‘Recent Developments in Chemical Sciences’ (70th Birthday of Prof. A. S. Brar), Guru Nanak Dev University, Amritsar (January 27, 2017)

CRSI-ACS Joint Meeting, IISER Bhopal (January 23, 2017)

5th Symposium on Advanced Biological Inorganic Chemistry, The Stadel, Salt Lake, Kolkata – 700 098 (January 7-11, 2017) (**Plenary Lecture**)

Recent Trends in Inorganic and Supramolecular Chemistry, Department of Chemistry, Indian Institute of Technology Kanpur (October 26, 2016)

19th CRSI National Symposium in Chemistry (CRSI NSC-19), Department of Chemistry, University of North Bengal, Siliguri, Darjeeling – 734 013 (July 14-16, 2016)

5th Inter-IISER Chemistry Meet 2015, IISER Thiruvananthapuram (December 11-13, 2015)

National Symposium on Modern Trends in Inorganic Chemistry–XVI (MTIC-XVI), Department of Chemistry, Jadavpur University (December 3-5, 2015) (**Inaugural Lecture**)

XVII NOST-Organic Chemistry Conference (NOST-OCC), Jaipur (October 27-30, 2015 (October 28, 2015)

One-day CRSI-NBU Local Chapter Meeting, ‘In Commemoration of the 153rd Birth Anniversary of Acharya Prafulla Chandra Ray’, Department of Chemistry, North Bengal University, Siliguri, West Bengal (August 28, 2015)

JSPS-DST Asian Academic Seminar and School 2015 (March 6–10, 2015), “Spectroscopy, Theoretical Chemistry and Chemistry of Materials”, Organized by IACS, IISER Kolkata and IMS (Japan) Commemorating the 30th Anniversary of India-Japan S & T Collaboration (March 6, 2015)

REACH-2015, An International Symposium on Recent Advances in Chemistry (March 3-5, 2015), UGC Centre for Advanced Studies in Chemistry, Department of Chemistry, North Eastern Hill University, Shillong – 793 022 (March 3, 2015)

4th International Conference - World Science Congress (December 16-18, 2014), Gandhi Bhavan, Jadavpur University, Kolkata – 700 032 (December 16, 2014)

XXXIII Annual Conference of Indian Council of Chemists (15-17 December 15-17, 2014), Department of Applied Chemistry, Indian School of Mines, Dhanbad – 826 004 (December 15, 2014)

International Conference on Structural and Inorganic Chemistry, December 4-5, 2014, National Chemical Laboratory (December 4, 2014)

One-day National Seminar entitled ‘Popularizing Chemistry-Series-II’ Department of Chemistry, St. Xavier’s College (Autonomous), Kolkata (September 26, 2014)

National Conference on Biodiversity (January 16-18, 2014), West Bengal Biodiversity Board, TEQIP Hall - Jadavpur University (January 17, 2014)

International Conference on Recent Trends in Science & Technology (ICRTST 2013), College of Engineering and Management, Kolaghat, West Bengal (December 27-29, 2013)

Summer School on ‘Genetics & Epidemiology’, Valedictory Lecture, National Institute of Biomedical Genomics, Kalyani (March 5, 2013)

International Conference on "Molecular Organization and Complexity: A Chemical Perspective”, Department of Chemistry, Calcutta University (February 6-8, 2013), Saha Institute of Nuclear Physics, Kolkata (February 8, 2013)

RSC India Roadshow, Organized by the Royal Society of Chemistry (RSC) and Indian Association for the Cultivation of Science (IACS) Kolkata (February 5, 2013)

Symposium on Inorganic Chemistry at Interface, Department of Chemistry, Indian Institute of Technology Kharagpur, Kharagpur (October 14, 2012)

CHM 2012: Chemical Frontiers (Goa), Indian Institute of Technology Bombay, Mumbai and International Centre for Materials Science JNCASR, Bangalore (August 14-16, 2012)

National Symposium: Chemistry in 21st Century, Department of Chemistry, Guru Nanak Dev University, Amritsar (December 23-24, 2011) (also Chaired a Session)

International Symposium on Chemistry & Complexity, Indian Association for the Cultivation of Science, Kolkata (December 6-8, 2011) (December 8, 2011) (also Chaired a session)

Annual Convention of Chemists of the Indian Chemical Society: Professor Priyadarajan Ray Memorial Award 2010, Department of Chemistry, University of Allahabad (December 3-7, 2011) (December 6, 2011)

Celebration of Chemistry@IITK: International Year of Chemistry-2011, Department of Chemistry, Indian Institute of Technology Kanpur (December 3-5, 2011) (Organized along with Drs. Pratik Sen, J. K. Bera, and M. L. N. Rao) (also Chaired a Session)

Exploration of Biological Processes through Chemical Sciences, UGC Sponsored National Level Seminar, Department of Chemistry and Department of Zoology, Narasinha Dutt College, Howrah (December 7-8, 2011) (December 8, 2011)

National Symposium on “New Horizons in Chemistry” (International Year of Chemistry – 2011)

National Seminar (International Year of Chemistry: Chemistry in our lives) under the thrust area “Design, Synthesis, Interaction, Chemical and Biochemical Activities of Different Functional Molecules” on the occasion of the 150th Birth Anniversary of Acharya Prafulla Chandra Ray, Department of Chemistry, The University of Burdwan (March 15-17, 2011) (March 15, 2011)

Celebration of the 150th Birth Anniversary of Acharya Prafulla Chandra Ray and the International Year of Chemistry, “Frontiers in Synthetic and Bioorganic Chemistry 2011, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur, West Bengal (March 13, 2011)

One-Day Seminar, Department of Chemistry, University of Delhi, Delhi (March 5, 2011)

“Emerging Trends in Chemical Sciences (ECTS-2011)”, February 18-19, 2011, Department of Chemistry, Faculty of Science, Banaras Hindu University (February 18, 2011)

13th CRSI National Symposium in Chemistry and 5th CRSI-RSC Symposium in Chemistry, National Institute of Science Education and Research (NISER), Bhubaneswar (February 4-6, 2011) (also Chaired a session)

Workshop on “Frontiers in Bioinorganic Chemistry”, Centre for Bioinorganic Chemistry, School of Chemistry, Bharathidasan University, Tiruchirappalli, (February 25-27, 2010) (February 26, 2010)

National Seminar on “Contemporary Research in Material Science and Chemical Biology” (January 31-February 2, 2010), Department of Chemistry, University of Allahabad, Allahabad, (February 1, 2010)

Workshop for ‘College Chemistry Students and Teachers’, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore and Foundation for Capacity Building in Science (FCBS), Trivandrum (October 29-31, 2009)

Symposium – VII on ‘Current Trends of Chemical Research’, Chemical Research Society of India (Kolkata Chapter), Narendrapur Ramakrishna Mission, Kolkata (August 8, 2009)

Discussion Meeting on ‘Crystal Engineering and Noncovalent Interactions: Contemporary Themes and Futuristic Developments’ Orange County, Coorg (February 22-25, 2009)

National Symposium on Modern Trends in Inorganic Chemistry (MTIC-XII), Indian Institute of Technology Madras, Madras (December 6-8, 2007)

Department of Science & Technology (DST) – Sponsored Winter School in Bioinorganic Chemistry, Department of Chemistry, Indian Institute of Technology Bombay, Mumbai (November 26, 2007)

National Convention of Chemistry Teachers and National Conference on Chemistry Vision 2020, Department of Chemistry, Hislop College, Nagpur (October 28, 2007)

Third Symposium on Advances in Bioinorganic Chemistry (SABIC-2004) in Conjunction with Second Asian Biological Inorganic Chemistry Conference (AsBIC-II), Goa; organized by Tata Institute of Fundamental Research, Mumbai (December 5-10, 2004)

Indo-French Seminar on Structure and Function of Metalloenzymes, Goa; organized by Indo French Centre for the Promotion of Advances Research, New Delhi (IFCPAR), Centre Franco-Indien Pour La Promotion de La Recherche Avanchee (CEFIPRA) and Tata Institute of Fundamental Research, Mumbai (December 3-5, 2004)

One Day Colloquium on Inorganic Chemistry, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata (November 4, 2003)

Mid-Year Meeting of Indian Academy of Sciences, Bangalore (July 5-6, 2002)

National Seminar on “Teaching Chemistry”, Department of Chemistry, Presidency College, Kolkata (December 14, 2002)

UGC Sponsored National Seminar on “Emerging Trends in Chemistry in the New Millennium”, Department of Chemistry, University of North Bengal, Darjeeling (September 6-7, 2001)

3rd National Symposium in Chemistry (NSC-3), Department of Chemistry & Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh (February 2-4, 2001)

Indo-French Workshop on Current Trends in Molecular Magnetism, Jawaharlal Nehru Centre for Advanced Scientific Research, Indian Institute of Science, Bangalore (December 4-8, 2000)

International Symposium on Advances in Bioinorganic Chemistry, Tata Institute of Fundamental Research, Mumbai (November 20-24, 2000)

One Day Symposium in Chemistry, Department of Chemistry, Indian Institute of Technology Kharagpur (August 11, 2000)

Fifth IUPAC International Symposium on Bioorganic Chemistry, National Chemical Laboratory, Pune (January 30 - February 4, 2000)

National Symposium on Modern Trends in Inorganic Chemistry, Department of Inorganic and Physical Chemistry and Jawaharlal Nehru Center for Advanced Scientific Research, Indian Institute of Science, Bangalore (January 18-20, 2000)

Twelfth Annual National Symposium, Department of Chemistry, Panjab University, Chandigarh (March 13, 1999)

First National Symposium in Chemistry, Chemical Research Society of India, Indian Institute of Science, Bangalore (January 27-30, 1999)

Symposium on Advances in Bioinorganic Chemistry, Tata Institute of Fundamental Research, Mumbai (October 7-11, 1996)

National Symposium on Perspectives of Inorganic Chemistry, Indian Association for the Cultivation of Science, Calcutta (December 21-22, 1995)

Symposium on Modern Trends in Inorganic Chemistry, School of Chemistry, University of Hyderabad, Hyderabad (August 17-19, 1995)

Fifth National Symposium on Bioorganic Chemistry, Shivaji University, Kolhapur and Indian Society of Bio-organic Chemists (February 24-25, 1995)

Symposium to Commemorate the 150th Years of the Royal Society of Chemistry – East India Section, Calcutta, “Chemistry at the Turn of the Century”, Indian Association for the Cultivation of Science, Calcutta (December 5-7, 1991)

Symposium on Modern Trends in Inorganic Chemistry, Central Salt & Marine Chemicals Research Institute, Bhavnagar (October 21-23, 1991)

Department of Science & Technology (DST) – Sponsored Workshop on Bioinorganic Chemistry, Indian Institute of Technology Madras, Madras (December 9-15, 1990)

National Symposium on Modern Trends in Inorganic Chemistry, Indian Institute of Technology Madras, Madras (January 4-6, 1988)

Invited Lectures: University/Institute

Abroad

Department of Chemistry, University of California Irvine, USA (April 7, 2017)

Institut für Anorganische Chemie, Universität zu Köln, Köln, Germany (June 29, 2011)

Institute of Inorganic and Analytical Chemistry, Johann Wolfgang Goethe Universität, Frankfurt am Main, Germany (June 28, 2011)

Lehrstuhl für Anorganische Chemie I, Fakultät für Chemie, Universität Bielefeld, Bielefeld, Germany (June 21, 2011)

Technische Universität Kaiserslautern, Institut für Chemi, Kaiserslautern, Germany (June 14, 2011)

Institut für Anorganische Chemie, Georg-August-Universität, Göttingen (June 9, 2011)

Institut für Anorganische Chemie Universität Stuttgart, Stuttgart, Germany (June 6, 2011)

Institute of Inorganic and Analytical Chemistry, Johann Wolfgang Goethe Universität, Frankfurt am Main, Germany (July 8, 2010)

Chemical Center, Lund University, Sweden (July 1 and July 2, 2010)

Université J. Fourier Grenoble, France (May 27, 2008)

Technische Universität-Kaiserslautern, Fachbereich Chemie, Germany (July 13, 2007)

Technische Universität-Berlin, Institut für Chemie, Germany (July 12, 2007)

Technische Universität-Braunschweig, Institut für Anorganische und Analytische Chemie, Germany (July 11, 2007)

Georg-August-Universität Göttingen, Institut für Anorganische Chemie, Germany (July 10, 2007)

Universität Paderborn, Department Chemie, Anorganische und Analytische Chemie, Germany (July 9, 2007)

Freie Universität-Berlin, Institut für Chemie und Biochemie, (July 5, 2007)

Philipps-Universität Marburg, Anorganische Chemie, Germany (July 4, 2007)

Justus-Liebig-Universität Gießen, Institut für Anorganische und Analytische Chemie, Germany (July 3, 2007)

Max-Planck Institute für Bioanorganische Chemie, Mülheim an der Ruhr, Germany (July 2, 2007)

Chemical Center, Lund University, Sweden (April 16, 2007)

Department of Chemistry, Stanford University, USA (April 18, 2006)

Departament de Química, Universitat de Barcelona, Spain (September 27, 2004)

Departament de Química, Universitat de Girona, Spain (September 17, 2004)

Anorganisch-chemisches Institut der Universität Heidelberg, Germany (June 14, 2002)

Anorganische und Analytische Chemie der Johannes Gutenberg – Universität Mainz, Germany (May 27, 2002)

Organisch-Chemischen Institut der Westfälischen Wilhelms-Universität Münster, Germany (May 16, 2002)

Institut für Anorganische Chemie, Universität Erlangen Nürnberg, Germany (May 7, 2002)

Laboratoire de Chimie Inorganique, Institut de Chimie Moléculaire d'Orsay, Université Paris-Sud, Orsay, France (June 29, 2001)

Laboratoire de Magnétisme et d'Optique, Université de Versailles Saint-Quentin-en-Yvelines, Versailles Cedex, France (June 27, 2001)

Unilever Research Center, Vlaardingen, The Netherlands (June 26, 2001)

Gorlaeus Laboratories, Leiden University, Leiden, The Netherlands (June 25, 2001)

Institut für Anorganische Chemie, Universität Erlangen Nürnberg, Germany (June 18, 2001)

Max-Planck Institut für Strahlenchemie, Mülheim, Germany (June 15, 2001)

Department of Chemistry, University of Manchester, UK (May 31, 2001)

Department of Chemistry, University College London, UK (May 25, 2001)

Department of Chemistry, Heriot-Watt University, Scotland (UK) (May 23, 2001)

Department of Chemistry, University of Bristol, UK (May 16, 2001)

Department of Chemistry, University of Durham, UK (May 9, 2001)

In the group of Prof. R. H. Holm, Department of Chemistry, Harvard University (August 28, 1998)

In the group of Prof. R. H. Holm, Department of Chemistry, Harvard University (April 7, 1993)

Department of Chemistry, University of North Carolina at Chapel Hill (April 6, 1993)

Department of Chemistry, Yale University (April 2, 1993)

In India

(i) College/University/Institute/Industry:

Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College Rahara, Kolkata – 700 118 (August 26, 2019)

National Level Seminar on Design, Synthesis, Characterization, Reactivity, Theoretical Study and Applications of Different Advanced Functional Materials, Department of Chemistry, The University of Burdwan (December 22, 2017)

Institute Colloquium, IISER Thiruvananthapuram (September 8, 2017)

Center for Advanced Functional Materials – IISER Kolkata (August 23, 2016)

Indian Association for the Cultivation of Science, Jadavpur, Kolkata – Institute Colloquium (August 16, 2016)

Chemical Sciences – Recent Trends (CSRT 2016), West Bengal State University, Barasat, West Bengal (March 30, 2016)

Delivered a lecture on New Knowledge: Promoting Research and Innovation; Guest-in-Chief, Annual Prize Distribution Ceremony Ramakrishna Mission Vivekananda Centenary College, Rahara – 700 118, West Bengal (February 3, 2016)

Department of Chemical Sciences, IISER Kolkata (August 12, 2015)

Inorganic & Physical Chemistry Department, Indian Institute of Science Bangalore (March 12, 2015)

Centre for Theoretical Studies (CTS), Indian Institute of Technology Kharagpur, Kharagpur (June 24, 2014)

To commemorate the 150th birth anniversary of Sir P. C. Ray, Indian Chemical Society (August 2-3, 2012), Department of Chemistry, University of Calcutta (August 3, 2012)

Department of Chemistry, Indian Institute of Technology Bombay, Mumbai (October 3, 2011)

Department of Chemistry, Indian Institute of Technology Kharagpur, Kharagpur (December 15, 2010)

“University Golden Jubilee National Seminar on Chemistry Today (UGJ-NSCT)” March 18-20, 2010, Department of Chemistry, University of Burdwan, Burdwan (March 19, 2010)

School of Chemistry, University of Hyderabad, Hyderabad (July 24, 2009)

Department of Chemistry, Jadavpur University, Kolkata (June 11, 2009)

Department of Chemistry, Indian Institute of Technology Guwahati, Guwahati (November 28, 2008)

Department of Chemistry, Indian Institute of Technology Bombay, Mumbai (October 23, 2008)

Department of Chemistry, Guru Nanak Dev University, Amritsar (September 5, 2008)

National Institute of Technology, Durgapur, West Bengal (February 28, 2008)

Hindustan Unilever Research Centre, Bangalore (February 4, 2008)

Regional Research Laboratory, Trivandrum (September 6, 2002)

Offered a Series of Lectures on Bioinorganic Chemistry, Guru Nanak Dev University, Amritsar (April 2-7, 2001)

Department of Chemistry, Pondicherry University, Pondicherry (February 2000)

School of Chemistry, University of Hyderabad, Hyderabad (January 17, 2000)

Department of Chemistry, University of Pune, Pune (June 22, 1999)

Department of Chemistry, Banaras Hindu University, Varanasi (March 19, 1996)

Regional Research Laboratory, Trivandrum (December 5, 1994)

Department of Chemistry, Presidency College, Calcutta now Kolkata (December 21, 1990)

School of Chemistry, University of Hyderabad (September 3, 1988)

(ii) Special Lectures:

Webinar on “Improvement of Teaching & Learning Process”, College of Engineering & Management, Kolaghat, Midnapur (East), West Bengal (June 21, 2021) (Invited)

Valedictory Address (Webinar), “Implementation of National Education Policy 2020”, College of Engineering & Management, Kolaghat, Midnapur (East), West Bengal (May 12, 2021)

Keynote Address (Webinar), Faculty Induction Program, UGC-Human Resource Development Centre, University of North Bengal, Siliguri, West Bengal (January 4, 2021)

Valedictory Session Lecture (Webinar), Chief Guest, Short Term Course on Research Methodology, UGC-Human Resource Development Centre, University of North Bengal, Siliguri, West Bengal (December 2, 2020)

Motivational Talk (Webinar) “Faculty Development Program, Technical Education Quality Improvement Program (TEQIP-III)”, Ministry of Education, IIT Indore (November 24, 2020)

150 years of Mendeleev’s Periodic Table, The Asiatic Society Kolkata (March 13, 2020)

Workshop on Chemistry for the Undergraduate and School (+2 level) Students, The National Academy of Sciences, Allahabad (NASI) (October 18, 2019)

Department of Chemistry, National Institute of Technology Manipur, Expert Lecture, (sponsored by TEQUP-III) (August 30, 2019)

Convocation Address, Chief Guest, The University of Burdwan, Burdwan (June 20, 2019)

Department of Chemistry, Guru Nanak Dev University, Amritsar (July 27, 2018)

‘Research Scholar's Day’ (RSD 2017), Department of Chemistry, IIT Kharagpur, Kharagpur (Keynote Address as Chief Guest) (September 16, 2017)

GIAN-2017, IISER Kolkata (May 8, 2017)

VIJYOSHI-2016, IISER Kolkata (December 5, 2016)

‘Science Day’, IISER Kolkata (February 28, 2016)

“5th Research Scholars’ Day-Celebration”, Indian Institute of Technology Patna (February 28, 2016)

73rd CSIR Foundation Day Lecture, CSIR-CECRI, Karaikudi (September 26, 2015)

‘Research Scholar's Day (RSD 2015), Department of Chemistry, IIT Kharagpur (August 2, 2015)

‘Science Day Lecture’ Organized by Indian National Academy of Engineering (INAE), Kolkata Chapter and the Centre for Soft-Computing Research, Indian Statistical Institute (March 2, 2015)

Prof. S. K. Siddhanta Memorial Lecture: National Seminar on Advanced Spectroscopy, Theoretical Chemistry, Synthesis, Reactivity and Structural Evaluation” February 19-21, 2015 (February 20, 2015)

Department Day, Department of Chemical Sciences, Indian Institute of Science Education and Research Kolkata (December 11, 2013)

Sixth Science Conclave 2013 (December 8-14, 2014), IIIT Allahabad (December 8, 2013)

National Seminar on “Chemistry in Interdisciplinary Applications”, Hans Raj College, University of Delhi (March 19, 2013)

Science Day Celebration – Indian Institute of Technology Roorkee, Roorkee (February 28, 2013)

State Level “Chemistry Olympiad” Prof. P. K. Sarma Memorial Lecture, The Society for Chemical Education Assam (SCEA), Department of Chemistry, Gauhati University (February 9, 2013)

3rd Asian Coordination Chemistry Conference (ACCC-3), India Habitat Centre, New Delhi (October 17-20, 2011) (Delivered Inaugural Lecture and Chaired a Session)

(iii) University Grants Commission-Sponsored Seminars/Refresher Courses:

Keynote Lecture (Webinar), Refresher Course (RC CHEM2021), UGC-Human Resource Development Centre, Jadavpur University, Kolkata (January 6, 2021)

Advances in Chemistry through Teaching and Research, UGC-sponsored Refresher Course in Chemistry organized by the Academic Staff College and Department of Chemistry, Jadavpur University January 2-22, 2015 (January 2, 2015)

Two-day Seminar on “Frontier Areas of Chemistry – A Modern Perspective”, Department of Chemistry, Ramakrishna Mission Vidyamandir, Belur Math, Howrah (February 25, 2010)

Refresher Course in Chemistry, UGC-Academic Staff College, School of Chemistry, University of Hyderabad, Hyderabad (July 25, 2009)

“8th Refresher Course in Chemistry”, UGC-Academic Staff College, Banaras Hindu University, Varanasi (January 22, 2008)

Refresher Courses on “Instrumental and Analytical Techniques in Chemistry”, Department of Chemistry, University of Allahabad, Allahabad (December 17, 2004)

Refresher Courses on “Organometallic Chemistry” for University and College Teachers, Department of Chemistry and the Academic Staff College, Lucknow University, Lucknow (July 23-24, 1996)

Refresher Courses on “Advances in Inorganic Chemistry” for University and College Teachers, Department of Chemistry and the Academic Staff College, Bharathidasan University, Tiruchirappalli (December 1-2, 1994)

(iv) University Grants Commission-Sponsored DSA/DRS (SAP) Programmes:

Department of Chemistry, The University of Burdwan, Burdwan (February 16, 2000)

National Seminar on Coordination Chemistry, Department of Chemistry, Utkal University, Vani Vihar, Bhubaneswar (March 30-31, 1998)

(v) Indian Academy of Sciences, Bangalore/Indian National Science Academy, New Delhi/National Academy of Sciences, Allahabad/Jawaharlal Nehru for Advanced Scientific Research, Bangalore-Sponsored:

Science Academies’ Lecture Workshop for Teachers and Students, Physics and Chemistry Departments of Dinabandhu Mahavidyalaya, Bongaon, West Bengal (March 17, 2016)

Science Academies Lecture Workshop on Recent Developments on the Theoretical and Experimental Aspects of Advanced Materials (September 18-19, 2015), Department of Chemistry, University of North Bengal, Siliguri, West Bengal (September 19, 2015)

Science Academies Lecture Workshop on “Recent Advances in Chemistry”, AS College, Deoghar, Jharkhand (March 16-17, 2013) (March 17, 2013)

Guru Nanak Dev University, Amritsar (24-26 October 2007)

Government Model Science College, Jabalpur (September 15-16, 2006)

Guru Nanak Dev University, Amritsar (October 29-30, 2001)

Miranda House, University of Delhi (November 3, 2000)

St. Stephens College, University of Delhi (February 3-5, 2000)

(vi) INSPIRE Internship Program-Sponsored by DST:

INSPIRE (Innovation in Science Pursuit for Inspired Research) Science Camp (July 6-11, 2012), UGC-Academic Staff College, The University of Burdwan (July 10, 2012)

Valedictory Lecture: INSPIRE (Innovation in Science Pursuit for Inspired Research) Science Camp (June 26-30, 2012), National Institute of Technology – Durgapur (June 30, 2012)

Internship Science Camp under the INSPIRE (Innovation in Science Pursuit for Inspired Research) Scheme (June 11-16, 2012), Tezpur University, Assam (June 13, 2012)

Pandit Ravishankar Shukla University, Raipur (December 4, 2010)

Conferences/Symposia/ Workshops Attended:

Abroad

“International Conference on Biological Inorganic Chemistry-12”, University of Michigan, Ann Arbor, USA (July 31 – August 5, 2005)

In India

Special Valedictory Function to felicitate the occasion of the 65th birth anniversary conference (Virtual) of Prof. Pradeep Mathur, ‘Frontiers in Organometallic and Catalysis (FOMC)-21’, MNIT Jaipur (January 22, 2021) (Invited)

25th Chemical Research Society of India National Symposium in Chemistry (CRSI-NSC-25), Vellore Institute of Technology, Vellore (February 7-9, 2020) (Chaired a Session)

24th Chemical Research Society of India National Symposium in Chemistry (CRSI-NSC-24), Indian Institute of Technology Kanpur, Kanpur (July 18-20, 2019) (Chaired a Session)

23rd Chemical Research Society of India National Symposium in Chemistry (CRSI-NSC-23), Indian Institute of Science Education and Research Bhopal, Bhopal (July 13-15, 2018) (Chaired a Session)

‘Prof. S. K. Siddhanta Memorial Lectures’, National Level Seminar on Design, Synthesis, Characterization, Reactivity, Theoretical Study and Applications of Different Advanced Functional Materials, Department of Chemistry, The University of Burdwan (December 22, 2017) (Chaired a Special Session)

Modern Trends in Inorganic Chemistry 2017, National Chemical Laboratory, Indian Institute of Science Education and Research (IISER) Pune and Pune University, Pune (December 11-14, 2017) (Chaired a Session)

‘New Dimensions of Chemistry 2017’, Institute of Nano Science and Technology, Mohali, Venue: Aahana Resort, Corbett National Park, Uttarakhand (May 3-5, 2017) (Chaired a Session)

‘Chemical Frontiers-2015’, Organized by IIT Bombay and JNCASR Bangalore, Goa (August 15-18, 2015) (Chaired a Session)

International Conference on Structural Chemistry of Molecules and Materials (SCOMM-2014), (November 30 – December 2, 2014), Kolkata (December 2, 2014)

Visited Department of Chemistry, North Bengal University with DCS faculty–Made a presentation on IISERs in general and IISER Kolkata in particular (April 4, 2014)

International Meeting on Chemical Biology – 2013 (May 26-28, 2013), IISER Pune, Pune (May 26, 2013)

International Symposium on Molecular organization and Complexity: A Chemical Perspective, Department of Chemistry, University of Calcutta (February 6–8, 2013) - Attended and made a brief presentation

14th Chemical Research Society of India National Symposium in Chemistry (NSC-14), CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram & Indian Institute of Science Education and Research, Thiruvananthapuram (IISER-TVM), February 3-5, 2012) (Chaired a Session)

J-NOST Conference, Indian Institute of Science Education and Research (IISER) Mohali (December 15-18, 2011) (December 15, 2011) (Chaired a Session)

3rd Asian Coordination Chemistry Conference (ACCC-3), India Habitat Centre, New Delhi (October 17-20, 2011) (Chaired a Session)

12th Chemical Research Society of India National Symposium in Chemistry (NSC-12): Indian Institute of Chemical Technology, Hyderabad (February 5-7, 2010)

International Symposium on Frontiers in Inorganic Chemistry (FIC-2010), Indian Association for the Cultivation of Science, Kolkata (December 11-13, 2010)
Modern Trends in Inorganic Chemistry, Indian Institute of Science, Bangalore (December 5-7, 2009)

11th Chemical Research Society of India National Symposium in Chemistry (NSC-11), National Chemical Laboratory, Pune (February 5-7, 2009)

Singapore-India Collaborative and Co-operative Chemistry Symposium – III, Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur (December 16-17, 2004)

Symposium on Recent Trends in Photochemical Sciences, Regional Research Laboratory, Trivandrum (January 8-10, 2001) (Chaired a Session)

Discussion Meeting: From Homogeneous to Heterogeneous Catalysis, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore (January 27-29, 1992).

Symposia Proceedings:

Abroad

- (11) A. Kumar, F. Meyer and R. N. Mukherjee, "A New (μ -Hydroxo)(μ -Peroxo)Diiron(III) Complex: Structure, Magnetism, Mössbauer Spectra, and Reactivity", 7th Asian Conference on Coordination Chemistry (ACCC-7), Kuala Lumpur, Malaysia (October 15-18 2019) (Poster Presentation by A. Kumar)
- (10) A. Sengupta and R. N. Mukherjee, "Aerial C-H bond activation and aromatic ring hydroxylation in Cu^{II} and Co^{III} complexes of Schiff base containing phenol-carboxamide ligand", Asian Coordination Chemistry Conference (ACCC-6, RACI 2017 Centenary Congress), Melbourne, Australia, (July 23-28, 2017) (Poster Presentation by A. Sengupta)
- (9) A. Ali, S. K. Barman, and R. N. Mukherjee, "Ligand Radical-Cordinated Palladium(II) Complexes and their Reactivity", Asian Coordination Chemistry Conference (ACCC-5), University of Hong Kong, Hongkong (July 12-15, 2015) (Poster Presentation by A. Ali)
- (8) A. Rajput, S. K. Barman, and R. N. Mukherjee, "Coordination Chemistry with Metal-Coordinated Radical Species", Asian Coordination Chemistry Conference (ACCC-4), Jeju, South Korea (November 4-7, 2013) (Poster Presentation by A. Rajput) (**Best Poster Award**)
- (7) S. K. Barman, S. Mandal, H. Arora and R. N. Mukherjee, "Transesterification of 2-Hydroxypropyl-*p*-nitrophenylphosphate using Phenoxo-bridged Dinuclear Co^{II} , Ni^{II} , and Zn^{II} Complexes", Asian Coordination Chemistry Conference (ACCC-2), Nanjing, China Book of Abstracts (p-293), (November 1-4, 2009) (Poster Presentation by S. K. Barman).
- (6) A. K. Sharma, F. Lloret and R. N. Mukherjee, "Homo- and Hetero- Face-Shared Trioctahedral Linear Complexes: Syntheses, Structure and Magnetism", Asian Coordination Chemistry Conference (ACCC-1), Okazaki, Japan, Book of Abstracts (p-xxx), (July 29 –August 2, 2007) (Poster Presentation by A. K. Sharma) (**Best Poster Award**).
- (5) S. Mandal, J. Mukherjee and R. N. Mukherjee, "Modeling of Tyrosinase and Catechol Oxidase Activity Using Designed Ligands: Some Recent Results", XIII International Conference on Biological Inorganic Chemistry, Vienna, Austria, Book of Abstracts (p-292), (July 15-20, 2007) (Poster Presentation by S. Mandal)
- (4) H. Mishra and R. N. Mukherjee, "Half-Sandwich η^6 -Benzene and η^5 -Cyclohexadienyl Ruthenium(II) Complexes: Molecular Structures and Noncovalent Interactions" XXII International Conference on Organometallic Chemistry, Zaragoza, Spain, Book of Abstracts (p-329), (July 23-28, 2006) (Poster Presentation by H. Mishra)

(3) A. K. Singh and R. N. Mukherjee, “Bivalent and Trivalent Iron Complexes of varying Nuclearity with Pyridine Amide Ligands. Inorganic and Bioinorganic Perspectives”, 2th International Conference on Bio-Inorganic Chemistry, Ann Arbor, Michigan, USA (July 31–August 5, 2005) (Poster Presentation by A. K. Singh)

(2) R. N. Mukherjee, R. Gupta, D. Ghosh and S. Mukhopadhyay “Effect of Reduced Coordination on Dicopper Complexes of *m*-Xylyl-Based Ligands: Relevance to Tyrosinase-like Activity”, Book of Abstracts (p. 295), “XXXIII International Conference on Coordination Chemistry “The Chemistry of Metal Ions in Everyday Life”, Florence, Italy (August 30–September 4, 1998) (Poster Presentation by R. N. Mukherjee)

(1) R. H. Holm, M. J. Carney, J. A. Kovacs, R. N. Mukherjee and T. D. P. Stack, “Recent Results on Biologically Relevant Iron-Sulfur Clusters”, 194th American Chemical Society National Meeting, Symposium on Metal Clusters in Proteins. Metal-Sulfur Clusters, American Chemical Society Meeting, New Orleans, USA (August 30 – September 04, 1987) (Oral Presentation by R. H. Holm)

In India

(44) A. Kumar, A. Sengupta, S. Demeshko and R. N. Mukherjee, “Structure, Magnetism and Reactivity of a $\{Mn^{III}(\mu-O)_2Mn^{IV}\}^{3+}$ Core Towards Oxidation of Phenols”. 25th CRSI National Symposium in Chemistry (CRSI NSC-25), IIT Kanpur (July 19-21, 2019) (Poster Presentation by A. Kumar)

(43) A. Kumar, A. Sengupta and R. N. Mukherjee, “Mixed-Valent Bis(μ -oxo) Dimanganese(III, IV) Complexes with Different Ligands and Reactivity and Phenolic Substrates”, 21st CRSI National Symposium in Chemistry (CRSI NSC-21), Hyderabad (July 14-16, 2017) (Poster Presentation by A. Kumar)

(42) A. Saha and R. N. Mukherjee, “Bio-inspired Mononuclear Copper(II) Complex with Labile Coordination site: Galactose Oxidase Modeling and Alkane Oxidation”, Chemistry interfacing with Biology and Physics (IISER Kolkata), (January 27-28, 2017) (Poster Presentation by A. Saha)

(41) N. Mukhopadhyay and R. N. Mukherjee, “Zn^{II}-Mediated Ligand Radical-Driven -O-CH₂-O- Bond Formation”, Chemistry Interfacing with Biology and Physics, IISER Kolkata, (January 27-28, 2017) (Poster Presentation by N. Mukhopadhyay)

(40) A. Sengupta, A. Rajput, S. K. Barman and R. N. Mukherjee, "Azo-containing Pyridine/Pyrazine Carboxamide Ligands: Series of Six Coordinated Fe^{III/II} and Co^{III/II} Complexes: Structures, Properties and Trend of $E_{1/2}$ Values For M^{III}/M^{II} Redox Process", 5th Symposium on Advanced Biological Inorganic Chemistry (SABIC)-Kolkata (January 7-11, 2017) (Poster Presentation by A. Sengupta)

(39) A. Kumar, A. Sengupta and R. N. Mukherjee, "Mixed-Valent Bis(μ -oxo)dimanganese(III, IV) Complexes with different ligands and reactivity and Phenolic Substrates", 5th Symposium on Advanced biological Inorganic Chemistry (SABIC)-Kolkata (January 7-11, 2017) (Poster Presentation by A. Kumar)

(38) A. Saha and R. N. Mukherjee, "Bio-inspired Mononuclear Copper(II) Complex with Labile Coordination site: Galactose Oxidase Modeling and Alkane Oxidation", 5th Symposium on Advanced Biological Inorganic Chemistry (SABIC)-Kolkata (January 7-11, 2017) (Poster Presentation by A. Saha)

(37) Shashi Kant and R. N. Mukherjee, "Magnetostuctural Aspects of Polynuclear complexes of Carboxylate-Appended (2-Pyridyl)alkylamines", Modern Trends in Molecular Magnets (MTMM), IIT Bombay (May 19-21, 2016) (Poster and Oral presentation by Shashi Kant)

(36) N. Mukhopadhyay and R. N. Mukherjee, "Metal-Ligand Radical - Driven C-O Bond Formation", 4th DCS Day (IISER Kolkata) (January 28, 2016) (Oral Presentation by N. Mukhopadhyay)

(35) Akram Ali, Suman K. Barman and R. N. Mukherjee, "Ligand Radical-Cordinated Palladium(II) Complexes and their Reactivity, Coordination Chemistry with Metal-Coordinated Radical Species", MTIC -XVI (Jadavpur University, Kolkata) (December 3-5, 2015) (Poster Presentation by A. Ali)

(34) Shashi Kant and R. N. Mukherjee, "Carboxylate-Appended (2-Pyridyl)alkylamines. Synthesis of Clusters and their Topologies", Chemfest (IIT Kanpur) (October 11, 2014) (Poster Presentation by Shashi Kant)

(33) A. Rajput, A. K. Sharma, S. K. Barman, and R. N. Mukherjee, "Coordination Chemistry with Metal-Coordinated Radical Species", MTIC-XIV (IIT Roorke) (December 13-15, 2013) (Poster Presentation by A. Rajput)

(32) S. K. Barman and R. N. Mukherjee, "Binuclear Cu^{II} Complexes with Dinucleating Phenol-based Ligands: Catecholase and Phosphatase-like Activity", MTIC-XIV (University of Hyderabad) (December 10-13, 2011) (Poster Presentation by S. K. Barman)

(31) A. Rajput, D. Dhar, Priyabrata Ghana, S. K. Barman, and R. N. Mukherjee, "Coordination Chemistry with Metal-Coordinated Radical Species", Asian Coordination Chemistry Conference (ACCC-3), Delhi (October 17-20, 2011) (Poster Presentation by A. Rajput)

(30) S. K. Barman, A. K. Sharma, and R. N. Mukherjee, "Chemistry with Non-innocent Ligands. Molecular and Electronic Structure, and Properties", International Symposium on Frontiers in Inorganic Chemistry (FIC-2010), Indian Association for the Cultivation of Science, Kolkata, Book of Abstracts (P-84), (December 11-13, 2010) (Poster Presentation by S. K. Barman)

(29) P. P. Das, S. Pandey, A. K. Singh, and R. N. Mukherjee, "Chemistry with Multidentate Pyridine Amide Ligands: Structures and Properties", International Symposium on Frontiers in Inorganic Chemistry (FIC-2010), Indian Association for the Cultivation of Science, Kolkata, Book of Abstracts (P-52), (December 11-13, 2010) (Poster Presentation by P. P. Das)

(28) R. Singh and R. N. Mukherjee, "Reactivity Studies of a Dihydroxo-bridged Dicopper(II) Complex of Tridentate Ligand Methyl[2-(2-pyridyl)ethyl]-(2-pyridylmethyl)amine", Symposium on Modern Trends in Inorganic Chemistry (MTIC-XIII), Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bangalore, Book of Abstracts (p-188), (December 7-10, 2009) (Poster Presented by R. Singh)

(27) S. K. Barman, S. Mandal, H. Arora and R. N. Mukherjee, "Kinetics of Transesterification of 2-Hydroxypropyl-*p*-nitrophenylphosphate using Phenoxo-bridged Dinuclear Co^{II}, Ni^{II}, and Zn^{II} Complexes", Symposium on Modern Trends in Inorganic Chemistry (MTIC-XIII), Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bangalore, Book of Abstracts (p-109), (December 7-10, 2009) (Oral Presentation by S. K. Barman)

(26) R. Singh and R. N. Mukherjee, "Kinetics of Transesterification of 2-Hydroxypropyl-*p*-nitrophenylphosphate by a Dimer-of-Dimer Type Tetranuclear Copper(II) Complex", Symposium on Advanced Biological Inorganic Chemistry (SaBIC-2009), Tata Institute of Fundamental Research, Mumbai, Book of Abstracts (P-235), (November 2-7, 2009) (Poster Presented by R. Singh)

(25) W. Jacob, H. Mishra, S. Pandey, F. Lloret, and R. N. Mukherjee, "Six-coordinate Co^{III} and Four-Coordinate M^{II} (M = Co, Zn) Mixed-Valence Dimers: Magnetism of a Co^{III}Co^{II} Complex and C-H...O/Cl/Br Interactions", 11th National Symposium in Chemistry (NSC-11), National Chemical Laboratory, Pune, Book of Abstracts (P-49), (February 6-8, 2009) (Poster Presentation by S. Pandey)

(24) S. Pandey and R. N. Mukherjee, "Ferrocene-based Anion Receptors: A Voltammetric Study", Modern Trends in Inorganic Chemistry, Department of Chemistry, Indian Institute of Technology Madras, Chennai, Book of Abstracts (P-D3-201), (December 6-8, 2007) (Poster Presentation by S. Pandey)

- (23) A. De and R. N. Mukherjee, "Cyano-bridged Polynuclear Complexes: Structure and Magnetism", Modern Trends in Inorganic Chemistry, Department of Chemistry, Indian Institute of Technology Madras, Madras, Book of Abstracts (P-D1-015), (December 6-8, 2007) (Poster Presentation by A. De)
- (22) A. Mukherjee, F. Lloret, and R. N. Mukherjee, "Diphenoxo-bridged Dimers: Stabilization of Phenoxy Radical", 9th National Symposium in Chemistry (NSC-9), University of Delhi, Delhi, Book of Abstracts (P-142), (February 1-4, 2007) (Poster Presentation by A. Mukherjee)
- (21) S. Mandal and R. N. Mukherjee, "Demonstration of Aromatic Ring Hydroxylation (Tyrosinase-like Activity) Using New *m*-Xylyl-Based Schiff Base Ligand: Copper-Oxygen Intermediate Due to Reaction between Bis(μ -hydroxo)dicopper(II) and Hydrogen Peroxide", 8th National Symposium in Chemistry (NSC-8), Indian Institute of Technology Bombay, Mumbai, Book of Abstracts (P-9), (February 3-5, 2006) (Poster Presentation by S. Mandal)
- (20) A. K. Singh and R. N. Mukherjee, "Co(II) and Co(III) Complexes of Thioether-Containing Pyrazine Amide Ligands: Effect of Ligand Ring Size on Metal Oxidation State", 8th National Symposium in Chemistry (NSC-8), Indian Institute of Technology Bombay, Mumbai, Book of Abstracts (P-27), (February 3-5, 2006) (Poster Presentation by A. K. Singh)
- (19) H. Arora and R. N. Mukherjee, "Mononuclear and Dinuclear Oxo-bridged Fe^{III} Complexes of Phenol-based Dinucleating Compartmental Ligands", Modern Trends in Inorganic Chemistry, Department of Chemistry, Indian Institute of Technology Delhi, New Delhi, Book of Abstracts (p-80), (December 8-10, 2005) (Poster Presentation by H. Arora)
- (18) V. Mishra and R. N. Mukherjee, "Singlet \rightleftharpoons Quintet Spin Transition in Six-Coordinate Iron(II) Complexes of Tridentate Pyridyl/Pyrazole/Imidazole-based Ligands", Modern Trends in Inorganic Chemistry, Department of Chemistry, Indian Institute of Technology Delhi, New Delhi, Book of Abstracts (p-79), December 8-10, 2005) (Poster Presentation by V. Mishra)
- (17) A. K. Singh and R. N. Mukherjee, "Co(II) and Co(III) Complexes of Thioether-containing Pyrazine Amide Ligands. Effect of Ligand Ring Size on Metal Oxidation State", 8th National Symposium in Chemistry (NSC-8), Indian Institute of Technology Bombay, Mumbai, Book of Abstracts (p-27), (February 3-5, 2006) (Poster Presented by A. K. Singh)
- (16) S. Mandal and R. N. Mukherjee, "Demonstration of Aromatic Ring Hydroxylation (Tyrosinase-like Activity) Using New *m*-Xylyl-Based Schiff Base Ligand: Copper-Oxygen Intermediate Due to Reaction between Bis(μ -hydroxo)dicopper(II) and Hydrogen Peroxide", 8th National Symposium in Chemistry (NSC-8), Indian Institute of Technology Bombay, Mumbai, Book of Abstracts (p-9), (February 3-5, 2006) (Poster Presentation by S. Mandal)
- (15) H. Mishra, A. K. Patra, and R. N. Mukherjee, "Half-Sandwich (η^6 -C₆H₆)Ru^{II} Complexes with Evidence for C-H \cdots Cl Interaction and Structure of a Cyclohexadienyl Derivative", 7th National Symposium in Chemistry (NSC-7), Indian Association for the Cultivation of Science, Kolkata, Book of Abstracts (p-367), (February 4-6, 2005) (Poster Presentation by H. Mishra)

- (14) A. K. Singh and R. N. Mukherjee, "Transition Metal Complexes of Pyridine/Pyrazine-2-carboxamide-based Hexadentate Ligands with Amido-Pyridyl/Pyrazine-Thioether Coordination", 7th National Symposium in Chemistry (NSC-7), Indian Association for the Cultivation of Science, Kolkata, Book of Abstracts (p-366), (February 4-6, 2005) (Poster Presentation by A. K. Singh)
- (13) V. Mishra, J. Mukherjee, V. Balamurugan, and R. N. Mukherjee, "Spin-State Transition in Fe(II), Inorganic Crystal Engineering *via* C-H ... Cl Hydrogen Bonding and Mononuclear/Di- μ -pyrazolato-bridged Cu(II) Complexes with Pyridyl/Pyrazole-based Chelating Ligands", 6th National Symposium in Chemistry (NSC-6), Indian Institute of Technology Kanpur, Book of Abstracts (p-129), (February 6-8, 2004) (Poster Presentation by V. Mishra)
- (12) J. Mukherjee, V. Balamurugan, and R. N. Mukherjee, "Triply-bridged Diiron(III), Dicobalt(III) and Phenoxo-bridged Dinickel(II) Complexes: A Bioinorganic Perspective", 6th National Symposium in Chemistry (NSC-6), Indian Institute of Technology Kanpur, Book of Abstracts (P-4), (February 6-8, 2004) (Poster Presentation by J. Mukherjee)
- (11) A. K. Singh and R. N. Mukherjee, "Synthesis and Characterization of Low-Spin and Cation Radical Complexes of Ruthenium(III) of a Tridentate Pyridine Bis-Amide Ligand", Modern Trends in Inorganic Chemistry, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai, Book of Abstracts (P-25), (December 14-17, 2003) (Poster Presentation by A. K. Singh)
- (10) V. Balamurugan, M. S. Hundal and R. N. Mukherjee, "Non-Charge-Assisted Inorganic Crystal Engineering *via* Intra- and Intermolecular C-H ... Cl₂-M^{II} Hydrogen Bonds", Modern Trends in Inorganic Chemistry, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai, Book of Abstracts (P-25), (December 14-17, 2003), (Poster Presentation by V. Balamurugan)
- (9) V. Balamurugan, J. Mukherjee and R. N. Mukherjee, "Reactions of Copper(I) Complexes of Designed Ligands with Dioxygen from the Standpoint of Modeling Tyrosinase/Catechol Oxidase Activity", 5th National Symposium in Chemistry (NSC-5), Central Leather Research Institute, Chennai, Book of Abstracts (p-22), (February 7-9, 2003) (Poster Presentation by V. Balamurugan)
- (8) J. Mukherjee and R. N. Mukherjee, "Bioinorganic Studies on Catechol Oxidase", Modern Trends in Inorganic Chemistry, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata (125 years of IACS and 50 years of the Department), Book of Abstracts (P-25), (December 12-14, 2001) (Poster Presentation by J. Mukherjee)

- (7) R. Gupta, S. Mukhopadhyay and R. N. Mukherjee, "Nonheme Iron Centers in Oxygen Activation", Symposium on Frontiers in Inorganic Chemistry, Department of Inorganic and Physical Chemistry and Jawaharlal Nehru Center for Advanced Scientific Research, Indian Institute of Science, Bangalore, Book of Abstracts, P-8 (July 8-10, 1998) (Poster Presentation by R. Gupta)
- (6) S. Mukhopadhyay, R. Gupta and R. N. Mukherjee, "Oxo-Bridged Motifs in Caged Environment", Symposium on Modern Trends in Inorganic Chemistry, Department of Chemistry, Indian Institute of Technology, Kanpur, Book of Abstracts, P-58 (December 4-6, 1997) (Poster Presentation by R. Gupta)
- (5) A. K. Patra, M. Ray and R. N. Mukherjee, "Supramolecular Array of Cation-Anion Interactions. The Use of Dianionic 2,6-Bis(*N*-phenylcarbonyl)pyridine as an Assembler of Anionic Single Hydroxo-Bridged Dicopper(II) Motifs Bound to Distorted Tetrahedrally Coordinated Sodium Cations", Symposium on Modern Trends in Inorganic Chemistry, Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, Book of Abstracts, P-11 (December 4-6, 1997) (Poster Presentation by A. K. Patra)
- (4) Z. Shirin and R. N. Mukherjee, "New Piano-Stool Ruthenium(II) Complexes of η^6 -C₆H₆ and Bidentate/Tridentate Nitrogen Donor Ligands: Synthesis, Characterization and Reactivity", Winter School-Cum-Workshop on Organometallic Chemistry, Department of Chemistry, Indian Institute of Technology, New Delhi, Book of Abstracts, PP-13 (December 6-8, 1993) (Poster Presentation by Z. Shirin)
- (3) S. Mahapatra, T. K. Lal, and R. N. Mukherjee, "A Novel [Mn^{III}(μ -O)(μ -OH)(μ -OAc)Mn^{III}]²⁺ Core. Synthesis, Characterisation and Proton-Coupled Electron Transfer Properties", Symposium on Modern Trends in Inorganic Chemistry, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore, Book of Abstracts, P-51 (August 11-13, 1993) (Poster Presentation by R. N. Mukherjee)
- (2) R. N. Mukherjee and K. Ramesh, "Trends in the Spectral and Redox Potential Data of Mononuclear High-Spin Ferric Complexes: Spectroelectrochemical Correlation and Ligand Electrochemical Series", Workshop on Bioinorganic Chemistry, Indian Institute of Technology Madras, Chennai, Book of Abstracts, P-38 (December 9-15, 1990) (Poster Presentation by R. N. Mukherjee)
- (1) M. Ray and R. N. Mukherjee, "Iron Complexes of the Bis-Amide Tetradentate Ligand. Preparation, Properties and Reactivity", *Proc. Indian Acad. Sci. (Chem. Sci.)* **1990**, *102*, 442, Symposium on Modern Trends in Inorganic Chemistry", Tata Institute of Fundamental Research, Mumbai (November 20 – 22, 1989) (Poster Presentation by R. N. Mukherjee)

Special Meetings in India/Special Visits Abroad:

In India:

Acted as an Indian expert, along with a foreign expert Prof. Timothy H. Warren, Georgetown University, Washington D.C., USA, for Rashtriya Uchchatar Shiksha Abhiyan (RUSA) Program, Department of Higher Education, Ministry of Human Resource Development, Government of India, Curriculum Reform Committee, Guru Nanak Dev University, Amritsar (July 25-26, 2018)

In response to the invitation by the Director of IISER Mohali, Directors of Pune, Kolkata, Bhopal and founder Director of Thiruvananthapuram attended a meeting on 'Institute Building: the story of IISERs (February 25, 2017)

Attended Visitor's Conference – 2016 at Rashtrapati Bhavan (November 16–18, 2016)

Attended Visitor's Conference – 2015 at Rashtrapati Bhavan (November 4–6, 2015)

Made a presentation in the presence of the Hon'ble President of India, Rashtrapati Bhavan (April 3, 2014)

Made a presentation during a Meeting with Hon'ble HRM (Shri Prakash Javarekar), IISER Mohali (September 23, 2016)

First IISER Council Meeting – presided over by the Hon'ble HRM (Smt. Smriti Zubin Irani), MHRD, New Delhi (June 23, 2016)

NITSER 'Council Meeting' – presided over by the Hon'ble HRM (Smt. Smriti Zubin Irani), NIT Warangal (October 1, 2015)

Guest Speaker at the Convocation Ceremony-2016 of Rishi Bankim Chandra College, affiliated to the West Bengal State University (September 10, 2016)

"Internationalisation Strategies in Higher Education: Role of Trans National Education (TNE)" at the British Council, 16 Camac Street, Kolkata 700017 (March 11, 2016) - Attended and made remarks on this issue.

Guest-in-Chief, Annual Prize Distribution Ceremony, Ramakrishna Mission Vivekananda Centenary College, Rahara 700 118 (February 3, 2016)

A Meeting with the delegates from RSC, UK (November 26, 2015) - Made a presentation on IISERs in General and IISER Kolkata Chemistry in particular

‘VIDYARTHI VIKASH’, Ramakrishna Mission Institute of Culture, Golpark, Kolkata (November 8, 2015)

New Education Policy – ‘National Education Policy-Role of Basic Science and Research’, Organized by MHRD, IISER Pune (July 22-23, 2015) - Made a presentation

Attended – National Policy Dialogue on University Rankings, Research Evaluation and Research Funding – Planning Commission/MHRD/British Council/Times Higher Education and Thomas Reuters, Hotel Le Meridien, New Delhi (May 23, 2013)

German House for Research and Innovation (DWIH), New Delhi – A Roadshow “DWIH New Delhi – Excellence on Tour” (March 22-28, 2014) - Keynote speaker: Made a presentation on IISERs in General and IISER Kolkata in particular, focusing internationalization of science and on opportunities for research collaboration between India and Germany (March 22, 2014)

Attended ‘SERB Meeting on Policy Decisions’, Hotel Novotel, Hyderabad Airport (January 24, 2014) 49

RSC India Roadshow, Organized by the Royal Society of Chemistry (RSC) and Indian Association for the Cultivation of Science (IACS) Kolkata (February 5, 2013)
- Made a scientific presentation

Made a presentation in a Meeting at Planning Commission - on the additional space requirement of IISER Kolkata (October 12, 2012)

AICTE-CII University-Industry Congress 2012, Eastern Region Conclave - Special address to showcase IISER Kolkata, Indian Association for the Cultivation of Science, Kolkata (July 31, 2012) - Made a presentation on IISERs in general and IISER Kolkata in particular

Business Economics (June 25, 2012) - Wrote a message on IISERs in General and IISER Kolkata in particular

ACS Editor’s Meeting, IACS, Kolkata (June 21, 2012) - Made a presentation on IISERs in General and IISER Kolkata in particular

1st Meeting of DST-Ramanujan Fellows, Indian Institute of Science Education and Research Pune (IISER Pune), Merriott Hotel and Convention Centre, Pune (May 4– 6, 2012)

Foundation Day: CSIR – Indian Institute of Chemical Biology, Kolkata (Speech as Guest-in-Chief) (April 2, 2012)

One-day Brain Storming workshop on Fostering Innovation in an Academic Environment – initiative of MHRD/UGC, Indian Institute of Technology Bombay (March 1, 2012)

Education Roundable in Delhi – State Government of Victoria Australia (February 12, 2012)

‘Showcasing 16 Indian Universities/Institutions on Doordarshan (DD1)’ – 2012. TALIEM International Liaison Centre for Universities, Colleges & Schools - Made a CD: Highlighted IISERs in General and IISER Kolkata in particular

Abroad:

In response to the invitation by Dr. Philippe Arhets Counsellor for Science & Technology, French Embassy in India – New Delhi to set up a scientific and academic cooperation network between the French “Ecoles normales supérieures” (ENS) and the “Indian Institutes of Science Education and Research” (IISERs). The final outcome will be the signing of Memorandum of Understanding agreement between all involved establishments. All five Directors of IISERs at Pune, Kolkata, Mohali, Bhopal and Thiruvananthapuram visited Lyon, Rennes, Ulm and Saclay (June 26-30, 2017)

In response to the invitations by the JSPS and Indian Embassy in Japan all five Directors of IISERs at Pune, Kolkata, Mohali, Bhopal and Thiruvananthapuram visited Seven Imperial Universities at Tokyo, Hokkaido, Tohoku, Nagoya, Kyushu, Osaka, and Kyoto for collaboration on exchange of students and scientists, joint workshops with JSPS (February 28 – March 7, 2015)

In response to the invitation by the Max Planck Society, Germany all five Directors of IISERs at Pune, Kolkata, Mohali, Bhopal and Thiruvananthapuram visited Max Planck Institutes (MPIs) at München, Göttingen and Berlin for collaboration on exchange of students and scientists, joint workshops and Max Planck partner groups between the IISERs and the Max Planck Society (November 25–31, 2012)

In response to the invitation, attended – Celebration of 275th Anniversary of Georg-August-Universität Göttingen, Göttingen, Germany (May 29–31, 2012)