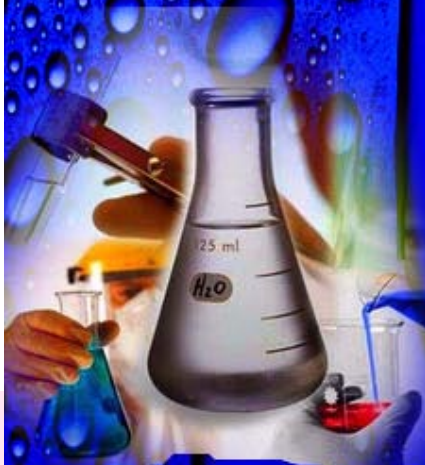


50 years of the Department of Chemistry



1952 2002
Department of Chemistry
Indian Institute of Technology, Delhi
GOLDEN JUBILEE



Department of Chemistry, IIT Delhi

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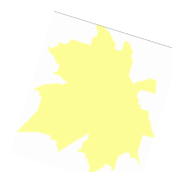
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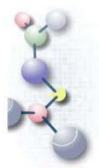


UV-VIS



NMR





Department of Chemistry

Indian Institute of Technology



About the Chemistry Department

The Department of Chemistry, established in September, 1963, is one of the twenty seven Departments/Centers/Schools of IIT Delhi. The department has twenty four distinguished faculties trained at renowned Institutes in India and abroad. In addition, the department is supported by a dedicated team of staff members.

One of our key objectives is to create good quality human resource. The Department offers core courses in chemistry for undergraduate B.Tech. students of Engineering in the Institute. In addition, it offers a two years M.Sc. programme, a two years M.Tech. programme and a Ph.D programme. Doctoral and post-doctoral research are carried out in all major areas of chemistry and allied sciences: analytical chemistry, biochemistry, bioinformatics, polymers, organometallics, solid state chemistry, materials chemistry, crystal engineering, nanomaterials, organic synthesis, carbohydrate chemistry, structural biology, molecular recognition, NMR methodology, theoretical chemistry, computer simulations and others. The department is adequately equipped with state-of-art analytical facilities to carry out modern day chemistry.

The faculty members attract substantial financial support for their research activities from both governmental and private agencies. Several members of the faculty have been elected as fellows of various scientific academies and some have been awarded medals/prizes for distinction in their areas of research. The Department offers a vibrant atmosphere to students and faculty to nurture the spirit of scientific inquiry and to pursue cutting-edge research in a highly encouraging environment.

Head, Department of Chemistry

PROGRAMS OFFERED BY THE DEPARTMENT

Undergraduate Program: All the students who enter the institute through IIT JEE have to register for mandatory chemistry courses for at least two semesters. These courses cover advanced basics of organic, inorganic and physical chemistry.

Postgraduate Program

M.Sc. (2-yr) Students enrolled in this program first have to qualify for the Joint Admission Test (JAM) for M.Sc. that is generally held in the month of May. The department offers several core (compulsory) courses and many electives. The course materials are so designed such as to facilitate and encourage discussion not only at the fundamental level but to also expose them to new and exciting trends in present day research. The program involves a 2-year (4 semesters) coursework with the last semester being mainly devoted to a research project carried out in any of the research groups of the students' choice.

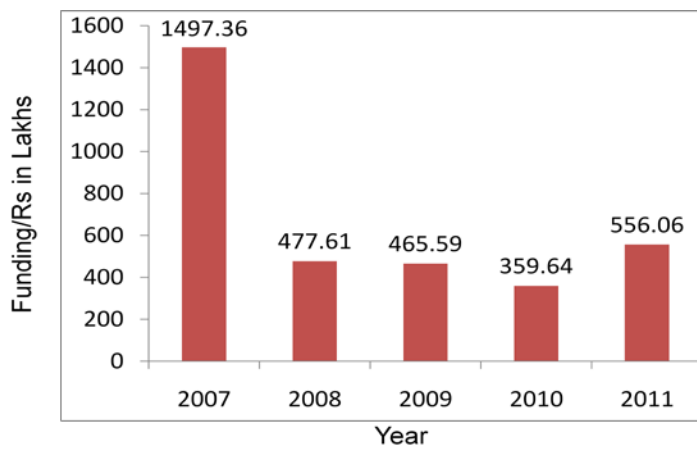
M. Tech. (2-yr) The department also offers a 2-yr M.Tech program wherein to be eligible students have to qualify the GATE exam and then appear for a formal interview in May. In their final year, students engage themselves in gaining research experience in a research laboratory of their choice.

Ph.D. Students enrolled in the Ph.D. program have to qualify for the GATE or CSIR-NET exams. Interviews for prospective doctoral students are held during the month of May, following which they can join from the Fall semester of the same year after getting accepted. Candidates generally start their research work under the respective faculty member from the first semester itself. Doctoral students are also encouraged to engage in Teaching Assistantship (TA) duties in supervising undergraduate laboratories.

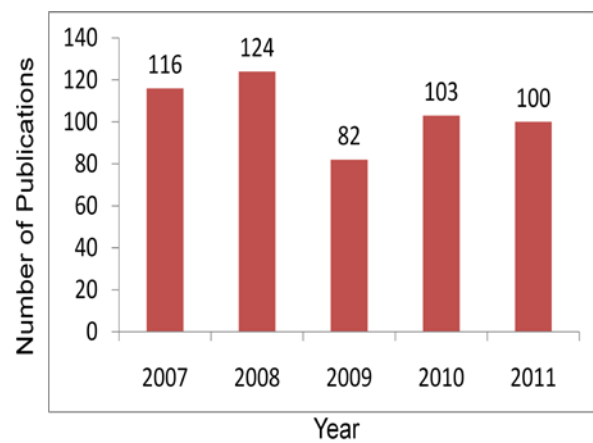
DEPARTMENT STATISTICS

Faculty	24
Staff	21
PhD	120
M Tech	20
M Sc	90
B Tech	~1000

SPONSORED RESEARCH PROJECTS



PUBLICATIONS



FACILITIES AVAILABLE IN THE CHEMISTRY DEPARTMENT

- Single Crystal X-ray Diffractometer (Bruker)
- Powder X-ray Diffractometer (Bruker).
- DPX-300 NMR Spectrometer (Bruker).
- Mass Spectrometer (Bruker)
- FTIR Spectrometer (Nicolet, Protege 460).
- UV-Visible Spectrophotometer (Lambda Bio 20, Perkin Elmer / Model 330, Hitachi, Beckman).
- Thermal gravimetric analyzer (Perkin Elmer).
- Differential Scanning Calorimeter (Perkin Elmer).
- C,H,N Analyzer (Perkin Elmer 2400).
- Fluorescence Spectrometer.
- Fast protein Liquid Chromatography.
- Gas Chromatograph (Dionex).
- Gel Permeation Chromatography.
- High Pressure Liquid Chromatography (Waters 1525) GPC.
- Vapour Pressure Osmometer (Knauer).
- Polarimeter (Rudolph, Autopal III & V).
- Ion Chromatograph (792 Basic IC, Metrohm).
- Circular Dichroism.
- Dynamic Light Scattering (Malvern)
- Fermentor (Applicon)
- Deep Freezer



FTIR

Other Facilities available to the Department (Within IIT)

- Scanning Electron Microscope (Phillips)
- Supercomputing Facility for Bioinformatics and Computational Biology.
- Glass Blowing.
- High Resolution Transmission Electron Microscope (FEI)
- Atomic Force Microscope/STM
- ESI LC MS-MS (Applied Biosystems, USA).
- BET
- Confocal Laser Scanning Microscope

The Department is also in the process of acquiring a Confocal Raman Microscope.

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PROFESSOR

Born Burdwan, West Bengal. Ph.D. (Prof. A. Chakravarty) Indian Association for the Cultivation of Science, 1985. Post Doctoral Scholar with Prof. T. G. Traylor at University of California (San Diego) and then with Prof. D. Dolphin, University of British Columbia (Vancouver, Canada) 1985-1992. Indian Institute of Technology Delhi, 1992-present.

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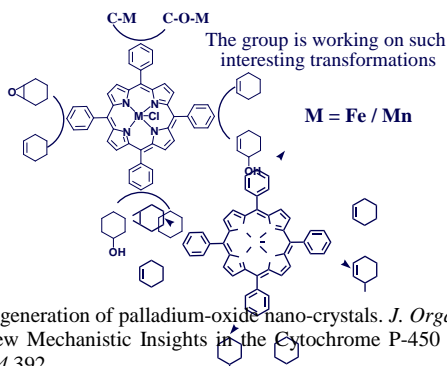
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**RESEARCH INTERESTS**

Metalloporphyrin catalyzed oxidation reactions of organic and organometallic compounds: Kinetics & Mechanistic studies

Our major focus of research is in the area of Porphyrin Chemistry, more specifically metalloporphyrin catalyzed oxidation reactions of organic and organometallic compounds. This work is of considerable interest in modeling the chemistry of Cytochrome-P450 and further to develop biocatalysts mimicking the functions of cytochrome and similar mono and dioxygenases. Moreover, our research is expected to further our understanding of the mechanistic aspects of these monooxygenases in particular and is of significant importance to the chemical industry especially in designing biocatalysts for oxidation reactions.

**SELECTED PUBLICATIONS**

1. Bagchi, V. and Bandyopadhyay, D. In-situ generation of palladium-oxide nano-crystals. *J. Organomet. Chem.* **2009**, In press.
2. Agarwala, A. and Bandyopadhyay, D. New Mechanistic Insights in the Cytochrome P-450 Model Reactions: Direct Identification of the Reactive Intermediates. *Catal. Lett.* **2008**, 124 392.
3. Agarwala, A. and Bandyopadhyay, D. Cytochrome P-450 Model Compound Catalyzed Selective Hydroxylation of C-H Bonds: Dramatic Solvent Effect. *Chem. Commun.* **2006**, 4823-4. Wadhvani, P., Mukherjee, M. and Bandyopadhyay, D. The Prime Reactive Intermediate in the Iron(III) Porphyrin Complex Catalyzed Oxidation Reactions by *tert*-Butyl Hydroperoxide. *J. Am. Chem. Soc.* **2001**, 123, 12430.

**GROUP MEMBERS****Ph. D. scholars**

Arunava Agarwala, Vivek Bagchi, Amit Singh, Harish Kumar

PROFESSOR

Born 1964, Cambridge, Massachusetts, USA
 Ph.D. (Prof. D. C. Clary, FRS), University of Cambridge.
 Post Doctoral Scholar (Prof. Horia Metiu), University of California at Santa Barbara and University of Cambridge.
 INSA Medal for Young Scientists, 1996.
 A. K. Bose Memorial Award of INSA, 1999. B. M. Birla Science Award, 1999.
 Bronze Medal of the Chemical Research Society of India, 2004. Swarnajayanti Fellowship of the Department of Science and Technology, 2004.
 Fellow of the Indian Academy of Sciences, Bangalore, 2006.
 Associate Member of the Centre for Computational Material Science, JNCASR, Bangalore.
 Shanti Swarup Bhatnagar Award (2009) in Chemical Sciences



Assistant Professor: Indian Institute of Technology Delhi, Oct '94 –July '02.
 Associate Professor: Indian Institute of Technology Delhi, Aug '02 –Oct'06
 Professor: Indian Institute of Technology Delhi Oct '06– Present.

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RESEARCH INTERESTS

Our research involves development and application of quantum and classical computer simulation methods to understand properties of liquids, as well as atomic level reorganizations associated with phase transitions and self-assembly. One of the key themes of our current research is developing quantitative relationships between structural, thermodynamic and transport properties of fluids. While we focus partially on water and its anomalous properties, we also study a broad range of liquids, including covalently bonded melts (Si, Ge), inorganic ionic liquids (SiO_2 , LiF-BF_2 , GeO_2) and core-softened mesoscopic fluids. We are currently extending these ideas to understand solvation of nanoscale solutes, such as peptides in aqueous environments and nanoparticle dispersions. Other projects currently being pursued in the group are freezing of simple and anomalous fluids, and development of coarse-graining approaches for understanding nanoscale assembly.

SELECTED PUBLICATIONS

1. Agarwal, M., Alam, M.P., Chakravarty, C. Thermodynamic, diffusional and structure anomalies in rigid body water models *J. Phys. Chem. B.* 2011, 115 (21), 6935-6945 .
2. Jabes, B.S., Agarwal, M., Chakravarty, C Tetrahedral order, pair correlation entropy, and waterlike liquid state anomalies: Comparison of GeO_2 with BeF_2 , SiO_2 , and H_2O *J.Chem. Phys.* **2010**, 132 (23) , 234507
3. Agarwal, M., Singh, M., Sharma, R., Parvez Alam, M., Chakravarty, C Relationship between structure, entropy, and diffusivity in water and water-like liquids *J. Phys. Chem.B* **2010**, 114 (20) , .6995-7001
4. Nayar, D., Agarwal, M., Chakravarty, C. Comparison of tetrahedral order, liquid state anomalies, and hydration behavior of mTIP3P and TIP4P water models *J. Chem. Theory and Comput.* **2010**, 7 (10) , 3354-3367

**GROUP MEMBERS****Ph. D. scholars**

Murari Singh, B. Shadrack Jabes, Divya Nayar, Hari Om Sharanam Yadav, Debdas Dhabal, Saurav Prasad, Madhulika Gupta, Gourav Shrivastav

PROFESSOR

Ph.D. Delhi

Burhani-NEERI (CSIR) Award for Outstanding and socially relevant R&D contributions in environmentally sound technologies (1998). Prof. M.N. Desai National Award for Organic Chemistry (1998). International Society for Cosmetics Dermatology (Rome, Italy). Lecturership award (1999). Active Ingredient Award (Paris). Distinguished Leadership award for excellence in Chemical Research. Fulbright Travel Award (USEFI). Regional Editor, *Molecules* (research journal published from Basel, Switzerland).



E-mail: hmchawla@chemistry.iitd.ac.in; Ph: +91-11-2659 1517

Webpage: <http://web.iitd.ac.in/~hmchawla/>**RESEARCH INTERESTS**

Our fields of current interest involve Chemistry and applications of calixarenes in real life situations, molecular organization for molecular recognition, novel materials for chemical sensors, Natural products for personal sophistication; adhesive sealants, novel sunscreen actives for protection from UVA and UVB radiations, concept of serumoids for enhancing efficacy of Ayurvedic drugs.

The group is actively involved in innovative research for process development in areas of relevance to chemical, cosmeceuticals and functional organic coatings and has already developed fruwash and other technologies for extending shelf life without refrigeration for protection of fruits and vegetables from natural spoilage and deterioration and other methodologies.

SELECTED PUBLICATIONS

1. Synthesis and evaluation of neutral anion receptor based on acyl hydrazide appended calyx[4]arenes, H.M. Chawla, Rahul Srivastava, Satyanarayan Sahu, Satish Kumar and Shailesh Upreti, **Supramolecular Chemistry**, 2012, **24**, 672-683.
2. Preferential recognition of zinc ions through a new anthraquinonoidal calix[4]arene, H.M. Chawla, Richa Shukla and Shubha Pandey, **Tetrahedron Letters**, 2012, **53**, 2996-2999.
3. Calix[4]arene-based ditopic receptors for simultaneous recognition of fluoride and cobalt(II) ions, Har Mohindra Chawla, Satya Narayan Sahu, Rahul Shrivastava and Satish Kumar, **Tetrahedron Letters**, 2012, **53**, 2244-2247.
4. Synthesis and evaluation of novel tetrapropoxycalix[4]arene enones and cinnamates for protection from ultraviolet radiation, H.M. Chawla, Nalin Pant, Satish Kumar, Sarika Mrig, Bindu Srivastava, Naresh Kumar, D. StC. Black, **J.Photochemistry and Photobiology B : Biology**, 2011, **105**, 25-33.

**GROUP MEMBERS****Ph. D. scholars**

Richa Shukla, Preeti Goel, Tanu Gupta, Priyanka Arora and Savita Singhal

M. Sc. scholars

Anmolla Ravi and Manoj Kumar

Post-doctoral fellows

Dr. Mohammad Shahid and Mr. Nitin Kumar

ASSISTANT PROFESSOR

Born Kolkata, West Bengal. Ph. D. (Prof. J. W. Petrich), Iowa State University, USA, 1999-2004. Post Doctoral Fellow (Dr. Feng Gai), University of Pennsylvania, USA, (Sep-2004 to January-2009).

Joined Indian Institute of Technology Delhi in January 2009.

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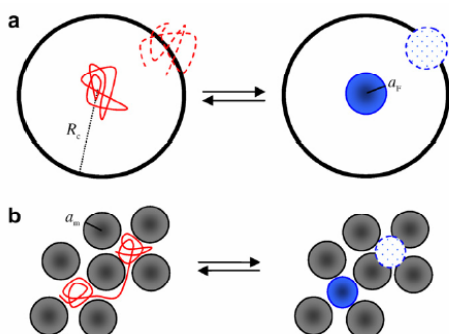
Ph: +91-11-2659-1521



RESEARCH INTERESTS

Protein folding and aggregation.

Our main focus is to use single molecule confocal microscopy techniques like fluorescence resonance energy transfer (FRET) and fluorescence correlation spectroscopy (FCS) to monitor protein dynamics. In particular, we want to lay special emphasis on how macromolecular crowding and confinement influence the folding and aggregation of proteins.



(a) Confinement (b) Macromolecular crowding. The unfolded protein is shown in red while the blue sphere represents its native form. The dark spheres in (b) are the inert macromolecular crowders. (Figure adapted from Zhou, *Annual Reviews of Biophysics*, 2008)

SELECTED PUBLICATIONS

1. Chowdhury, P. K. "Fluorescence correlation spectroscopy: a brief review of techniques and applications to biomolecules and biosystems", *Journal of Proteins and Proteomics*, 2011, **2**, 145-169.
2. Ojha, K. Chowdhury, P. K. and Ganguli, A. K. "Fluorescence and CD studies of protein denaturation in the presence of sub-picomolar gold nanoparticles", *Ind. J. Chem.* 2012, **51A**, 1561-1566.
3. Malik A., Kundu J., Mukherjee S. K. and Chowdhury P. K. "Myoglobin unfolding in crowding and confinement", *J. Phys. Chem. B*, 2012, **116**, 12895-12904.
4. Sharma S., Pal, N., Chowdhury, P. K., Sen, S. and Ganguli A. K. "Understanding Growth Kinetics of Nanorods in Microemulsion: A Combined Fluorescence Correlation Spectroscopy, Dynamic Light Scattering and Electron Microscopy Study", *J. Am. Chem. Soc.* 2012 (ASAP article).



GROUP MEMBERS

Ph. D. scholars

Ashima Malik, Jayanta Kundu, Saikat Biswas, Priyanka Singh, Sandeep Karmakar, Sanjib Kundu

Project scholars

Saikat Chakraborty

M. Sc. scholars

Debarati Dasgupta, Sanghamitra Sinha

ASSOCIATE PROFESSOR

Born 1971, Buxar

Ph.D., IIT Delhi, 1999

Post Doctoral Fellow: UTHSCSA, San Antonio, TX

Post Doctoral Fellow: UMICH, Ann Arbor

Assistant Professor: Indian Institute of Technology Delhi, Jun 06 – Mar 11

Associate Professor: Indian Institute of Technology Delhi, April 11-present.

E-mail: sdeep@chemistry.iitd.ac.in;

Ph: +91-11-2659 6596

Webpage: <http://web.iitd.ac.in/~sdeep/>

**RESEARCH INTERESTS**

Our group is interested in (i) Structural characterization of receptor and its complexes with ligands and physicochemical characterization of their interaction (ii) Biophysical studies of protein folding and protein aggregation (iii) Methodology development for rigorous analysis of experimental data. Ligand-receptor interactions are central to the most biological processes, and detection of specific amino-acid residues that contribute to the specificity and strength of protein interactions is a problem of the utmost importance. Similarly, the phenomenon of protein aggregation is important in widely different contexts such as food biochemistry, protein folding, neurodegenerative diseases, and preparation of protein pharmaceuticals. A variety of experimental techniques like multinuclear NMR spectroscopy, fluorescence, DSC, ITC, DLS and CD are being used to carry out these studies.

SELECTED PUBLICATIONS

1. Rani A., Pandita E., Rahman S. **Deep S.**, Sau A.K. (2012), "Insight into Temperature Dependence of GTPase Activity in Human Guanylate Binding Protein-1", *PLoS ONE*, 7(7): e40487. doi:10.1371/journal.pone.0040487
2. Nayeem S. M., **Deep S.** (2010), "Rationalization of poor solubility of TGF- β 3 using MD simulation". *Biochemical Biophysical Research communication*, 401, 544-547.
3. **Deep S.**, Im SC, Zuiderweg ER, Waskell L. (2005). "Characterization and calculation of a cytochrome c-cytochrome b5 complex using NMR data". *Biochemistry*, 44(31), 10654-68.
4. Hart P.J., **Deep S.**, Taylor A.B., Shu Z., Hinck C.S., Hinck A.P. (2002). "Crystal structure of the human T β R2 ectodomain- TGF- β 3 complex". *Nature Structural Biology*, 9, 203-208.

**GROUP MEMBERS****Ph. D. scholars**

Shahid Nayeem, Ashhar I Khan, Vinay Kumar, Preeti Gupta, Shivnetra Saha, Nidhi Kaur Bhatia, Nidhi Katyal

Project Student: Komal Saini

M. Sc. scholars

Prasenjit Kar, Rahul Majee

PROFESSOR

Born 1961, Kottayam, Kerala

Ph.D., IIT Madras, 1989

Alexander von Humboldt Fellow: Goettingen,

Post Doctoral Fellow and visiting faculty: Univ of Idaho, USA

Asst and Associate Prof, IIT Kanpur 1993-2002; Professor, IIT Delhi 2006.



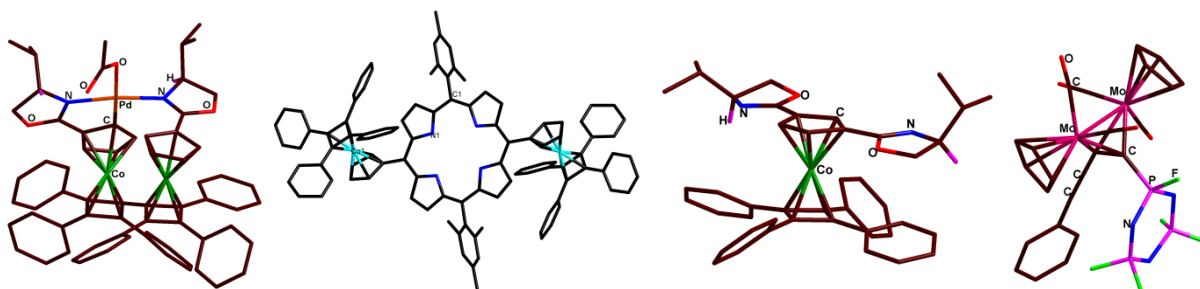
Recipient: Indian National Science Academy Teacher Award, 2012.

E-mail: elias@chemistry.iitd.ac.in; Ph: +91-11-2659 1504

Webpage: <http://web.iitd.ac.in/~elias/>

RESEARCH INTERESTS

Our research focuses on exploring the chemistry centered on (a) cyclic phosphorus nitrogen compounds and (b) organometallic sandwich compounds especially ferrocene and the cobalt sandwich compound $\text{CpCoC}_4\text{Ph}_4$. The current interests of our research group in cyclophosphazenes involve olefin metathesis, reactions centered around their alkyne and butadiyne derivatives and development of chiral derivatives. The chemistry being carried out currently on $\text{CpCoC}_4\text{Ph}_4$ involves developing novel bidentate chiral and achiral ligands and porphyrin derivatives, exploring their spectral and structural properties and using these novel ligands in developing catalysts especially for asymmetric catalysis.

**SELECTED PUBLICATIONS**

1. Singh, N., Elias, A. J., Cyclopentadienyl disubstituted cobalt sandwich compounds: Precursors for sterically hindered bidentate chiral and achiral ligands, *Organometallics*, **2012**, *31*, 2059.
2. Kumar, D., Singh, N., Keshav, K., Elias, A. J. Ring closing metathesis reactions of terminal alkene derived cyclic phosphazenes, *Inorg. Chem.*, **2011**, *50*, 250.
3. Keshav, K., Singh, N., Elias, A. J. Synthesis and reactions of ethynylferrocene derived fluoro and chloro cyclophosphazenes, *Inorg. Chem.*, **2010**, *49*, 5753.
4. Gupta, B.D., Elias, A. J. Basic Organometallic Chemistry, Concepts synthesis and applications ; Universities Press, Hyderabad. and CRC press, USA, **2010**; 2nd edition **2012**.

**GROUP MEMBERS****Ph. D. scholars**

Karunesh Keshav, Dheeraj Kumar, Jatinder Singh

Post Doctoral Fellow

Nem Singh

PROFESSOR

Born 1961, New Delhi

Ph.D., IISc Bangalore, 1990

Post Doctoral Fellow: Ames Laboratory, Iowa State University (1991-93, 2004-05)

Visiting Scientist: DuPont Company, Delaware (1990-91)

Joined Indian Institute of Technology Delhi in 1995

Professor: 2006-present

CRSI Medal(2006), MRSI Medal(2007), FASc, FNASc



E-mail: ashok@chemistry.iitd.ac.in

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Webpage: <http://web.iitd.ac.in/~ashok/>**RESEARCH INTERESTS**

Microemulsions, nanomaterials, superconductors, metal oxides and intermetallics. Our group has contributed extensively to the field of nanostructured materials and superconductors. Our current interests are mainly in the synthesis and properties of (1) Microemulsions to design nanomaterials with controlled size and shape (2) Anisotropic nanostructures, core-shell nanoparticles and nanocomposites (3) Applications of nanostructures to photocatalysis, hydrogen evolution and water purification and (4) oxypnictide superconductors of the type, Ln(O/F)FeAs, AFe₂As₂ and FeSe. We have been involved in several important nanotechnology and materials related projects which include setting up of advanced techniques like, X-ray diffraction, light scattering and microscopy facilities AFM/STM/HRTEM/FESEM).

SELECTED PUBLICATIONS

1. S. Sharma, N. Pal, P. K. Chowdhury, S. Sen, and A. K. Ganguli *J. Am. Chem. Soc.*, (2012) DOI: 10.1021/ja306556e.
2. A. K. Ganguli, J. Prakash and G. S. Thakur, *Chem. Soc. Rev.*, (2012) (in print)
3. S. Khanchandani, S. Kundu, A. Patra, and A. K. Ganguli *J. Phys. Chem. C*, 116, 23653 (2012)
4. Menaka, N. Garg, S. Kumar, D. Kumar, K. V. Ramanujachary, S. E. Lofland and A. K. Ganguli, *J. Mater. Chem.* 22, 18447 (2012).
5. Menaka, R. Patra, S. Ghosh and A. K. Ganguli, *J. Mater. Chem.* 22, 6356 (2012)
6. J. Ahmed, S. Saha, Govind, P. Trinh, A. M. Mugweru, K. V. Ramanujachary, Samuel E. Lofland and A. K. Ganguli, *J. Phys. Chem. C*, 115, 14526 (2011)
7. A. K. Ganguli, A. Ganguly and S. Vaidya, *Chem. Soc. Rev.*, 39, 474 (2010).

**GROUP MEMBERS****Research Associates**

Dr Ashima Sah, Dr Mrinmoyee Basu, Dr Manu Sharma, Dr Aparna Ganguly

Ph. D. scholars

Menaka, Aditya Verma, Debashree Das, Sunita, Soma Sharma, Bharat Kumar, Neha Garg, Arabinda Baruah, Kasinath Ojha, Gohil Thakur, Nibedita Das, Zeba Haq, Soumen Saha, Vaishali Sethi

Project students

Sandeep Kumar, Nitin Yadav, Rohini Yadav, Jayanti Mishra, Oruganti Anjaneyulu

M. Sc. Scholars: Sanjit Mondal, Mamta Yadav, Garima Jaiswal

PROFESSOR

Born: 25.06.1948

PhD., Indian Institute of Science, Bangalore, 1975

Post-doctoral research experience:

Massachusetts Institute of Technology (MIT), USA;

University of Minnesota, USA; Lund University, Sweden;

Universite de Technologie de Compiegne, France.

Lecturer: Indian Institute of Technology Delhi, 1975-1983

Assistant Prof: Indian Institute of Technology Delhi, 1984-1990

Professor: Indian Institute of Technology Delhi, 1990 onwards

Head, Chemistry Dept., Indian Institute of Technology Delhi, 1999-2001

Chairman, advisory committee on Library, Indian Institute of Technology

Delhi, 2002-2003

Dean, PGS&R, Indian Institute of Technology Delhi, 2003-2006

E-mail: munishwar@chemistry.iitd.ac.in Tel: 2659 1503



RESEARCH INTERESTS

Broadly speaking, this group works on almost all aspects of biocatalysis: Protein bioseparation, Protein immobilization and use of biocatalysts in both aqueous and non aqueous media. One strong focus is on improving biocatalyst designs for optimum performance in nearly anhydrous organic solvents and ionic liquids. Intertwined with the above is preparing nanosized materials for both bioseparation and biocatalysis. Production of Biofuels with enzymes is being explored. The group is also working on catalytic promiscuity of enzymes with particular emphasis on aldol condensation. Another research direction being pursued is looking at protein aggregation to develop novel protein refolding strategies.

Prof. M. N. Gupta is also the editor-in-chief of an international journal (about to be launched) called Sustainable Chemical Processes [Website: SustainableChemicalProcesses.com]

SELECTED PUBLICATIONS

1. Solanki, K., Halling P J., Gupta, M.N. (2012) Examining structure-activity correlations of some high activity enzyme preparations for low water media. **Bioresource Technology** 115, 147-151.
2. Gautam, S., Dubey P., Singh P., Kesavardana S., Varadarajan R. and Gupta M.N. (2012) Smart Polymer Mediated Purification and Recovery of Active Proteins from Inclusion Bodies **Journal of Chromatography A** 1235, 10- 25
3. Rather, G. M., Mukherjee, J., Halling, P. J. and Gupta, M.N. (2012) Activation of Alpha Chymotrypsin by Three Phase Partitioning is Accompanied by Aggregation **PLOS ONE DOI 10.1371/journal.pone.0049241**.
4. Gautam, S., Dubey, P. and Gupta, M.N. (2012). A facile and green ultrasonic-assisted synthesis of BSA conjugated silver nanoparticles **Colloids and Surfaces B: Biointerfaces** 102:879-83.

GROUP MEMBERS



Research Associate:

Dr. K. Kannan

PhD Scholars:

Benu Monga, Joyeeta Mukherjee, Saurabh Gautam, Priyanka Dubey, Vaibhav Sharma

JRF/SRF:

Veena Singh, Deepika Malhotra, Ishara Datta

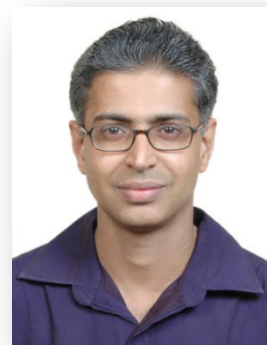
MSc Student:

Sudipta Hazra

ASSOCIATE PROFESSOR

Ph.D., NIIST Trivandrum
Post Doctoral Fellow: The Scripps Research Institute, USA and Max Planck Institute, Germany
Associate Professor: Indian Institute of Technology Delhi.

E-mail: haridasv@chemistry.iitd.ac.in;
Ph: +91-11-2659 1380
Webpage: <http://web.iitd.ac.in/~/>

**RESEARCH INTERESTS**

Chemical biology of peptides and proteins. Biophysics of peptide/protein folding

(a) Protein engineering: We are involved in the synthesis of artificial proteins and its applications in biology.

(b) Supramolecular Chemistry: In this context, we are involved in the synthesis of molecules for various applications like receptors, various solid state properties, as catalysts and as model systems to unravel various biological phenomena.

(c) Organic Synthesis: Synthesis of molecules and their use as chemical tools to understand biological processes require very elegant organic synthetic methods. Some of our efforts are in this direction.

(d) Protein/Peptide mimicry: Our group is working on mimicking important aspects of protein structure and function. Molecules we are interested are either peptide-based or non-peptide based

SELECTED PUBLICATIONS

1. Chem. Commun. 2012, 48, 3821-3823
2. RSC Adv. 2012, 2, 12594-12605
3. ChemBioChem 2012, 13, 2489-2494
4. Plos One, Neglected Tropical Diseases, 2012, ASAP.
5. Tetrahedron Lett. 2012, 53, 5523-5527

**GROUP MEMBERS****Ph. D. scholars**

Praveen Kumar P. P, Sandhya S, Ram P. Verma, Bijesh M. B, Appa Rao Sapala, Ishanki Bhardwaj, Sakshi Sharma

Project Scientist

Dr. Sarala Naik

M. Sc. scholars

Prasun Ghosh, Rohit Gupta

ASSISTANT PROFESSOR

Born 1977, New Delhi

Ph.D., Delhi University, 2005

Postdoctoral Fellow: University of Rhode Island

Assistant Professor: Amity University, Noida, July 08 – Nov10

Assistant Professor: Indian Institute of Technology Delhi, Dec 2010-present.

E-mail: njain@chemistry.iitd.ac.in;

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Webpage:<http://www.chemistry.iitd.ac.in/faculty/jain.html>**RESEARCH INTERESTS**

Our research focuses on the development of new reaction methodologies in synthetic organic chemistry and transition metal catalyzed reactions involving carbon-carbon, and carbon-hetero atom bond formations for the synthesis of medicinally important heterocycles. We work towards the design and synthesis of task specific ionic liquids which can stabilize transition metal nanoparticles without loss in their catalytic properties. We are also interested in investigating methods for activation of sp, sp² and sp³ hybridized C-H bonds by transition metal catalysts under ambient conditions to form a diverse range of useful molecular architectures. Another research interest is in the area of chemical carcinogenesis involving structural studies of DNA-adducts formed by interaction of DNA with environmental carcinogens like aromatic amines and polycyclic aromatic hydrocarbons. In particular, the focus is to study how these carcinogens, upon metabolism, interact with cellular DNA and initiate mutagenesis/carcinogenesis. The long-term goal is to elucidate the mechanisms of mutation and repair at the molecular-genetic level using various spectroscopic and molecular biological methods.

SELECTED PUBLICATIONS

1. Bhawana, R.K. Basniwal, H.S. Buttar, V.K. Jain, and N. Jain*, Curcumin nanoparticles: Preparation, characterization, and antimicrobial study, *J. Agric. Food Chem.*, **2011**, 59, 2056.
2. N. Jain, S. Meneni, V. Jain, and B.P. Cho, Influence of flanking sequence context on the conformational flexibility of aminofluorene-modified dG adduct in dA mismatch DNA duplexes, *Nucleic Acids Res.*, **2009**, 37, 1628.
3. N. Jain, F. Liang, T. Hutchens, D. D. Shock, W. A. Beard, S. H. Wilson, M. P. Chiarelli, and B. P. Cho, Methylene-2'-deoxynucleoside 5'-triphosphate as non-cleavable substrates for DNA polymerases: Isolation, characterization, and stability studies of novel 2'-deoxycyclonucleosides, 3,5'-anhydro-dG and 2,5'-anhydro-dT, *J. Med. Chem.*, **2008**, 51, 6460.
4. N. Jain, A. Kumar, S. Chauhan, and S.M.S. Chauhan, Chemical and biochemical transformations in ionic liquids, *Tetrahedron*, **2005**, 61, 1015.

**GROUP MEMBERS****Ph. D. scholars**

Chanchal Premi, Ananya Srivastava, Abadh Kishor Jha, Mahesh Deshmukh, Poonam Sharma

M. Tech scholars

Raj Lakshmi Mishra

M. Sc. scholars

Rahul Shahani, Gummadi Suddhakar

PROFESSOR

Ph.D., City Univ. New York, 1986
 Post Doctoral Fellow: Columbia Univ., USA
 Sr. Res. Associate: Wesleyan Univ., USA
 Assistant Professor: Indian Institute of Technology Delhi, 1990-1995
 Associate professor: Indian Institute of Technology Delhi, 1995-1999
 Professor: Indian Institute of Technology Delhi, 2000-present.
 E-mail: bjayaram@chemistry.iitd.ac.in; bjayaram@scfbio-iitd.res.in
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**RESEARCH INTERESTS**

The advent of information rich era grants us the opportunity to sketch a pathway from Genome → Gene → Protein → Drug to develop personalized medicine almost in an automated way. Currently however, without the help of any database, an inspection of a DNA sequence does not tell us whether it is likely to be a gene and if it is a gene for mRNA, what the likely three dimensional structure of its protein product is. Also drug design softwares fall short of expectations even if the structures of drug targets are known. Addressing these issues from a *physico-chemical perspective*, we have been developing all atom energy based methodologies for whole genome analysis (*ChemGenome*) (1), tertiary structure prediction of proteins (*Bhageerath* and *Bhageerath-H*) (2), and protein/DNA targeted lead molecule design (*Sanjeevini*) (3).

SELECTED PUBLICATIONS

1. **Chemgenome:** (a) S. Dutta, P. Singhal, P. Agrawal, R. Tomer, Kritee, E. Khurana & B. Jayaram. "A Physico-Chemical Model for Analyzing DNA sequences", *Journal of Chemical Information & Modelling*, **2006**, 46(1), 78-85. (b) P. Singhal, B. Jayaram, S. B. Dixit & D. L. Beveridge. "Molecular Dynamics Based Physicochemical Model for Gene Prediction in Prokaryotic Genomes", *Biophysical Journal*, **2008**, 94, 4173-4183; (c) G. Khandelwal & B. Jayaram, "DNA-water interactions distinguish messenger RNA genes from transfer RNA genes", *J. Am. Chem. Soc.*, **2012**, 134 (21), 8814-8816, DOI:10.1021/ja3020956; 2. **Bhageerath:** (a) P. Narang, K. Bhushan, S. Bose & B. Jayaram. "A computational pathway for bracketing native-like structures for small alpha helical globular proteins", *Phys. Chem. Chem. Phys.*, **2005**, 7, 2364-2375; (b) B. Jayaram et al., "*Bhageerath*..", *Nucleic Acid Res.*, **2006**, 34, 6195-6204; 3. **Sanjeevini:** (a) T. Jain & B. Jayaram. "An all atom energy based computational protocol for predicting binding affinities of protein-ligand complexes", *FEBS Letters*, **2005**, 579, 6659-6666; (b) S. Shaikh & B. Jayaram. "A swift all atom energy based computational protocol to predict DNA-Drug binding affinity ΔG and ΔT_m ", *J. Med. Chem.*, **2007**, 50, 2240-2244; (c) B. Jayaram, Tanya Singh, Goutam Mukherjee, Abhinav Mathur, Shashank Shekhar & Vandana Shekhar, "*Sanjeevini*: A Freely Accessible Web-Server for Target Directed Lead Molecule Discovery", *BMC Bioinformatics*, **2012**, in press.

**GROUP MEMBERS****Ph.D. scholars**

Goutam Mukherjee, Tanya Singh, Priyanka Dhingra, Avinash Mishra, Abhilash Jayraj, Ashutosh Shandilya, Anjali Soni

Staff

Shashank Shekhar, Vandana Shekhar, Preeti Bisht, R. Nagarajan, Sanjeev Kumar, Ankita Singh, Varsha Singh

PROFESSOR

Born 1961, Uttar Pradesh

Ph.D., IIT, Delhi, 1989

Post Doctoral Fellow: National Food Research Institute, Tsukuba Science City, Japan

DBT Visiting Scientist: Northern Regional Research Laboratory, Illinois

USA Assistant Professor: Indian Institute of Technology, Delhi, April 2000 –Oct 06.

Associate Professor: Indian Institute of Technology Delhi, Oct 06-Apr 11.

Professor: Indian Institute of Technology Delhi, Apr 11-present.

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**RESEARCH INTERESTS**

My research programme aims to understand the structural basis of extremophile enzyme stability and catalytic activity, in particular to solvent and salinity. The programme involves the isolation, from environmental samples, of novel extremophilic micro-organisms according to their metabolic and enzymic capabilities with overall objectives to exploit their unusual metabolic features and unique catalytic specificities in the biotechnological applications. Isolation of new solvent tolerant (solvent in general are toxic to microbial cells and have been used as bactericidal agents), metalophiles and halophilic microbial stains and their characterization by 16S rDNA sequencing. More than 28 extremophilic bacteria have been characterized by us. Purification and characterization of novel enzymes from them. Protease, lipase and aminopeptidase from solvent tolerant and protease and amylase from halophilic bacteria have been purified to homogeneity. Genes for three novel enzymes have been cloned and sequenced. Structural modeling bioinformatic analysis has revealed the unique hydrophobic surface in extremozymes which impart them stability under harsh conditions. Further structural analysis using CD and fluorescence has been established extremophilic nature of these enzymes. Also, the application of metallophilic group of bacteria in heavy metal bioremediation and nanoparticle synthesis has been successfully achieved. In the above context following strains have been deposited by us. *Geomicrobium* sp. EMB2 (MTCC 10310), *Pseudomonas aeruginosa* PseA (MTCC 10634), *Enterobacter cloacae* EMB19 (MTCC 10649) and *Bacillus cereus* EMB20 (MTCC 10650) Application of above extremozymes: Three proteases from different bacteria have been used for detergent application. Lipase from *Pseudomonas aeruginosa* has been utilised for ester synthesis. Amylase from *Marinobacter* sp. has been used for maltooligosaccharide synthesis.

SELECTED PUBLICATIONS

1. Ram Karan and S. K. Khare (2011) Stability of haloalkaliphilic *Geomicrobium* sp. protease modulated by salt. *Biochemistry (Moscow)* 76(6):686-693. (IF: 1.327)
2. Arvind Sinha, Vidya Nand Singh, Bodh Raj Mehta and S.K. Khare (2011) Synthesis and characterization of monodispersed orthorhombic manganese oxide nanoparticles produced by *Bacillus* sp. cells simultaneous to its bioremediation. *J. Hazard. Mater.* 192: 620–627. (IF: 4.14)
3. Chetna Joshi, Priyanka Mathur and S. K. Khare (2011) Degradation of phorbol esters by *Pseudomonas aeruginosa* PseA during solid-state fermentation of deoiled *Jatropha curcas* seed cake. *Bioresource Technol.* 102:4815-4819. (IF: 4.253)
4. Anshu Gupta and S. K. Khare (2009) Enzymes from solvent tolerant microbes: Useful biocatalysts for non-aqueous enzymology. *Crit. Rev. Biotechnol.* 29:44-54. (IF: 3.567)

**GROUP MEMBERS****Ph. D. scholars**

Chetna Joshi, Sumit Kumar, Rajeshwari Sinha, R. Hemamalini, Ayesha Sadaf, Jasneet Grewal.

M. Sc. scholars

Jishnu Samanta

PROFESSOR

Ph.D., Caltech, 1992

At Indian Institute of Technology Delhi since 1997

E-mail: nkurur@chemistry.iitd.ac.in

Ph: +91-11-2659 1378

Webpage: <http://web.iitd.ac.in/~nkurur/>



RESEARCH INTERESTS

We research on NMR methodology. Heteronuclear decoupling in solids and long-lived states and coherences in NMR are two topics that have interested us recently.

RECENT PUBLICATIONS

1. Supercycled SW_T-TPPM sequence for heteronuclear dipolar decoupling in solid-state nuclear magnetic resonance, *J. Magn. Reson.*, **2011**, 209, 156
2. Heteronuclear dipolar decoupling in solid-state nuclear magnetic resonance under ultra-high magic-angle spinning, *J. Magn. Reson.*, **2011** 209, 359
3. On the choice of heteronuclear dipolar decoupling scheme in solid-state NMR, *J. Magn. Reson.*, **2010**, 207, 140
4. Heteronuclear dipolar decoupling in liquid-crystal NMR using supercycled SW_T-TPPM sequences, *Magn. Reson. Chem.*, **2010**, 48, 798
5. Efficient heteronuclear dipolar decoupling in solid-state nuclear magnetic resonance at rotary resonance conditions, *J. Magn. Reson.*, **2010**, 203, 199



GROUP MEMBERS

Chinthalapalli Srinivas, Maninder Singh

ASSISTANT PROFESSOR

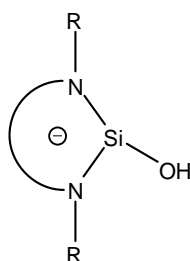
Born Virudhunagar, Tamilnadu. Ph.D. (Prof. V. Chandrasekhar), IIT Kanpur, 2002. JSPS Post Doctoral Fellow (Prof. Mitsuo Kira), Tohoku University, Sendai, Japan, 2003-2005. Alexander von Humboldt (AvH) Research Fellow (Prof. Dr. Dr. h. c. mult. Herbert W. Roesky), Institute of Inorganic Chemistry, Georg-August-University, Göttingen, Germany (2005-2008). Indian Institute of Technology Delhi, 2008-present.

Awarded the Honorable Mention (Cash Award of USD 100 and a copy of the IUPAC "Gold Book") for the 2003 IUPAC Prize for Young Chemists by the International Union of Pure and Applied Chemistry (IUPAC), USA.

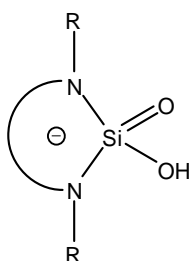
E-mail: sisn@chemistry.iitd.ac.in Ph: +91-11-2659 1523

**RESEARCH INTERESTS**

Due to the importance of N-heterocyclic carbenes (NHCs), there is a great deal of interest in the synthesis of NHC analogues of heavier group 13 and 14 elements. In addition, the dogma about their unstable nature has been eliminated with the advent of sophisticated synthetic methodologies and handling techniques and therefore, in recent years, they are used as starting materials for the synthesis of unusual compounds of group 13 and 14 elements.



Silylene hydroxide



Silicon analogue of carboxylic acid

In view of this, my research group is interested in the synthesis and characterization of novel functionalized silylenes and germylenes, studying their interesting reactivity, and looking for their potential application in materials and catalysis. Two exotic target molecules are shown on the left. Apart from this, we also have huge interest in bioorganometallic chemistry and studying the applications of novel metallocenophane based polymers.

SELECTED PUBLICATIONS

1. Iwamoto, T., Kobayashi, M., Uchiyama, K., Sasaki, S., Nagendran, S., Isobe, H. and Kira, M. Anthryl-substituted trialkyl-disilene showing distinct intra- molecular charge-transfer transition. *J. Am. Chem. Soc.* **2009**, *131*, 0000.
2. Nagendran, S., Sen, S. S., Roesky, H. W., Koley, D., Grubmüller, H., Pal, A. and Herbst-Irmer, R. RGe(I)Ge(I)R compound (R = PhC(NtBu)₂) with a Ge-Ge single bond and a comparison with the Gauche conformation of hydrazine. *Organometallics*, **2008**, *27*, 5459.
3. Nagendran, S. and Roesky, H. W. The chemistry of Aluminum(I), Silicon(II), and Germanium(II). *Organometallics*, **2008**, *27*, 457.
4. Uchiyama, K., Nagendran, S., Ishida, S., Iwamoto, T. and Kira, M. Thermal and photochemical cleavage of Si=Si bond in tetrasila-1,3-diene. *J. Am. Chem. Soc.* **2007**, *129*, 10638.

**GROUP MEMBERS****Ph. D. scholars**

Rahul Kumar, Mukesh Kumar Kumawat, Chandan Pal

M. Tech scholars**M. Sc. scholars**

PROFESSOR

Born 1949, Ghazipur (UP)
 Ph.D., Banaras Hindu University, Varanasi, 1977
 Post Doctoral Fellow: Columbia University
 Post Doctoral Fellow: Cambridge University
 Lecturer: Indian Institute of Technology Delhi, June 1982- April 1990.
 Assistant Professor: Indian Institute of Technology Delhi, April 1990- Aug. 1997.
 Associate Professor: Indian Institute of Technology Delhi, Aug. 1997- Aug-2008.
 Professor: Indian Institute of Technology Delhi, Aug. 2008-Present



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 Ph: +91-11-2659 1506

RESEARCH INTERESTS

The main focus of our research is on the design and synthesis of bile acid based receptors for recognition of anions. The unique structural features of bile acids in terms of chiral, rigid framework and positioning of hydroxyl and carboxyl groups make them suitable building blocks for the design of molecular receptors. We incorporate imidazolium and 1,2,3-triazolium moieties in bile acids, which interact with anions through hydrogen bonding and electrostatic interactions. Some of these receptors have been found to recognize fluoride, chloride and phosphate ions with high affinity and remarkable selectivity. These receptors may be considered as potential anion-carriers for the transportation of anions through biological membranes. We are also utilizing bile acids to design receptors for flavin and uracil derivatives, and to construct self-assembly systems. In addition, our group is also working on the synthesis of novel bile acid polymers using alkyne-azide click chemistry. We have realized that these polymers are excellent capping agents for the formation of silver nanoparticles (3-10 nm). These nanoparticles display dual sensing behavior towards mercury(II) and iodide ions.

SELECTED PUBLICATIONS

- 1.Chhatra R. K., Kumar A., Pandey P. S., Synthesis of a bile acid-based click-macrocycle and its application in selective recognition of chloride ion. *J. Org. Chem.*, **2011**, 76, 9086.
- 2.Kumar, A., Chhatra, R.K.,Pandey, P.S., Synthesis of click bile acid polymers and their application in stabilization of silver nanoparticles showing iodide sensing properties, *Org. Lett.*, **2010**,12, 24.
- 3.Kumar, A., Pandey, P.S., Anion recognition by 1,2,3-triazolium receptors: application of click chemistry in anion recognition, *Org Lett.*,2008, 10,165.
- 4.Khatri, V.K., Upreti, S., Pandey, P.S., Novel bile acid-based cyclic bisimidazolium receptors for anion recognition, *Org. Lett.* **2006**, 8, 1755.



GROUP MEMBERS

Ph. D. Scholars

Rajesh Kumar Chhatra, Aradhana Nayal, Pradeep Kumar Muwal.

M. Tech Scholars

Kuldeep Kumar Garg, Krishna Velugula

M. Sc. Scholar

Sridip Parui

Research Associates

Anamica Tripathi, Roly Mishra

PROFESSOR

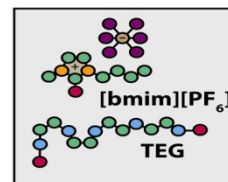
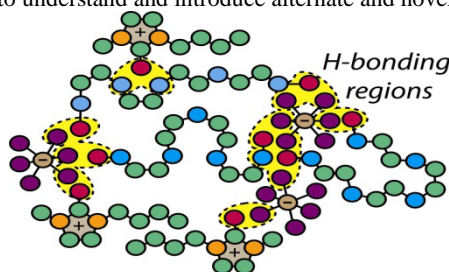
Born: 1970 (Allahabad).
 M.Sc. Chemistry (5-year Integrated): IIT Kanpur, 1992.
 Ph.D. (Prof. W. E. Acree, Jr.): University of North Texas, USA, 1997.
 Post Doctoral Fellow (Prof. F. V. Bright): SUNY-Buffalo, USA, 2000.
 Assistant Professor (Tenure-Track), 2000 - 2004, Department of Chemistry, New Mexico Tech, Socorro, New Mexico, USA.
 Assistant Professor, 2004 - 2006, Department of Chemistry, IIT Delhi.
 Associate Professor, 2006 - 2011, Department of Chemistry, IIT Delhi.
 Professor, 2011 - current, Department of Chemistry, IIT Delhi.
 Visiting Professor, 2011-2012, U. Missouri – Columbia, USA
 NASI SCOPUS Young Scientist Award (2009), Royal Society of Chemistry Travel Award (2007), SAS Graduate Student Award (1997), James J. and Ruth I. Spurlock Scholarship Award for Outstanding Research Achievement by a Graduate Student (1997), Best Teaching Assistant Award by Alpha Chi Sigma, BH chapter (1996), George Vaughan Memorial Award (1995) for Best Graduate Student (First and Second Year).



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RESEARCH INTERESTS

Optical spectroscopy, advanced fluorescence techniques, molecularly organized media, environmentally friendly solvent systems, chemosensors, photophysical processes. Major focus of the research work is in the area of understanding complex fluidic systems using optical spectroscopic techniques. Specifically, emphasis is on investigating solvation and aggregation within ionic liquid-based systems, aqueous and nonaqueous surfactant and polymer solutions, and supercritical fluids. The long term goal of the work is to understand and introduce alternate and novel solvent systems.

**SELECTED PUBLICATIONS**

1. "Selective Quenching of 2-Naphtholate Fluorescence by Imidazolium Ionic Liquids" V. Kumar, **S. Pandey***. *J. Phys. Chem. B*, **2012**, 116, 12030.
2. "Ethanol-Assisted, Few Nanometer Water-In-Ionic Liquid Reverse Micelle Formation by a Zwitterionic Surfactant". R. Rai, Sh. Pandey, S. N. Baker, S. Vora, K. Behera, G. A. Baker, **S. Pandey***. *Chem. Eur. J.* **2012**, 18, 12213.
3. "Optically Responsive Switchable Ionic Liquid Systems for the Monitoring and Visual Determination of Carbon Dioxide." Sh. Pandey, S. N. Baker, **S. Pandey**, G. A. Baker. *Chem. Commun.* **2012**, 48, 7043.
4. "Pronounced Hydrogen Bonding Giving Rise to Apparent Probe Hyperpolarity in Ionic Liquid Mixtures with 2,2,2-Trifluoroethanol." S. Trivedi, Sh. Pandey, S. N. Baker, G. A. Baker, **S. Pandey***. *J. Phys. Chem. B* **2012**, 116, 1360.

**GROUP MEMBERS****Ph. D. scholars**

Vinod Kumar, Rewa Rai, Ashish Pandey

M. Sc. scholars

Utsab Mitra

PROFESSOR

Born (Calcutta, 1961).

Ph.D. (Organic Chemistry) Princeton University, 1989.

Post Doctoral Fellow (Structural Biology) Rockefeller University, 1992. Indian Institute of Technology Delhi, (1992-present)



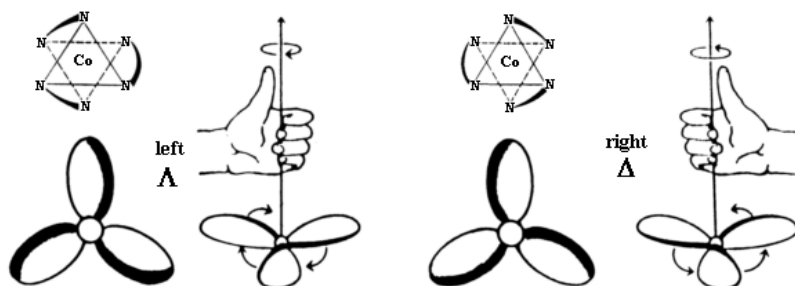
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RESEARCH INTERESTS

Theoretical and Experimental studies on molecular conformation, Molecular Recognition.

SELECTED PUBLICATIONS

1. Chakrabarti A., Chawla, H. M., Francis, T., Pant, N. and Upreti, S. Synthesis and cation binding properties of new arylazo- and heteroarylazotetrathiacalix[4]arenes. *Tetrahedron*, **2006**, 62, 1150.
2. Chakrabarti A., Chawla, H. M., Geeta Hundal, G. and Pant, N. Convenient synthesis of selectively substituted tribenzo[*a,d,g*]cyclononatrienes. *Tetrahedron*, **2005**, 61, 12323.

**GROUP MEMBERS**

Kapil Sharma, Ph.D. 2011

Mukesh, Ph. D. 2007

Abhishek Upadhyay, Ph. D.
1999

PROFESSOR

B Born: (Ghazipur, Uttar Pradesh). Ph.D. (Prof. Gurbakhsh Singh, 1979) Banaras Hindu University.

Affiliations:

B. Sc. (1968, University of Gorakhpur),
M. Sc. (1970, B. H. U.)



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Ph: +91-11-2659 1508

RESEARCH INTERESTS

Our research group is currently interested in copper-promoted organic transformations of various compounds possessing a trichloromethyl group. Mechanistic investigations reveal the involvement of radical or carbene intermediates in these reactions. Reactions like halogen atom transfer radical cyclization of 2,2,2-trichloroethyl allylic ethers, 1,2-acyloxy shift in Surzur-Tanner rearrangement of 2,2,2 trichloroethyl carboxylates, 1,2-hydrogen shift in 2,2,2-trichloroethyl alkyl ethers, benzannulation of *o*-allylaryl trichloroacetates, insertion reactions of carbene intermediates, etc. have been investigated. Using these reactions as the key steps, some useful highly substituted 3-chlorofurans, synthetically modified natural products, potentially bioactive molecules, chloroalkenes, acid chloride enolesters, chloromethyl ketones, highly substituted biaryls, etc. have been prepared.

SELECTED PUBLICATIONS

1. Ram, R. N.; Soni, V. K.; Gupta, D. K. Organocatalytic selective benzylation of alcohols with trichloromethyl phenyl ketones: inverse selectivity in benzylation of alcohols containing phenol or aromatic amine functionality. *Tetrahedron* **2012**, *68*, 9068.
2. Ram, R. N. and Manoj, T. P. Copper(I)-promoted synthesis of chloromethyl ketones from trichloromethyl carbinols. *J. Org. Chem.* **2008**, *73*, 5633.
3. Ram, R. N. and Manoj, T. P. 1,2-H shift in copper-chlorocarbene intermediate during CuCl/bpy-promoted stereoselective dechlorination of 2,2,2-trichloroethyl alkyl ethers to (Z)-1-alkoxy-2-chloroethenes. *Org. Lett.* **2008**, *10*, 2243.
4. Ram, R. N., Tittal, R. K. And Upreti S. An Unusual decarboxylative benzannulation and biaryl formation during copper(I)-promoted halogen atom transfer radical cyclization of 2-allylaryl trichloroacetates. *Tetrahedron Lett.* **2007**, *45*, 7994.

GROUP MEMBERS**Ph. D. scholars**

Dharmendra kumar Gupta, Vineet kumar Soni,
Nisha Dawra

PROFESSOR AND HEAD

Born 1956, Veppathur, Tamil Nadu
 Ph.D., IISc Bangalore, 1984
 Assistant Professor: Indian Institute of Technology Delhi, Sept 90 – July 97
 Associate Professor: Indian Institute of Technology Delhi, Aug 97 – Dec 04
 Professor: January 05 - present
 E-mail: aramanan@chemistry.iitd.ac.in;
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**RESEARCH INTERESTS**

Crystal engineering, solid state chemistry, natural and synthetic materials

Our group focuses on the crystallization of new metal-organic and organic solids and its structure and properties. We, as crystal engineers, employ reliable and robust intermolecular interactions to design functional solid state structures from neutral or ionic building blocks *viz.* tectons. A major challenge in *crystal design* is to map the pathway of the reaction process in terms of recognition and supramolecular aggregation between interacting molecules or tectons in the crystallization medium. Our question is how to establish a link between tectons reacting in the medium and the intermolecular interactions observable in the solid state. The currently available experimental techniques are still far from addressing the structure of a critical nucleus, the supramolecular analogue of the transition state. The currently available experimental techniques are still far from addressing the structure of a critical nucleus. If we can propose a structure for the critical nucleus, we can elucidate the different supramolecular reaction pathways leading to a crystal form. Wherever kinetic and thermodynamic data are not available, a retrosynthetic approach is employed to obtain chemical insights into the architecture of a crystal and interpret the occurrence of multiple forms such as polymorphs, hydrates/solvates, isostructures and supramolecular isomers in the *structural landscape* of a given system. We have structurally characterized several solids based on coordination polymers, polyoxometalates, active pharmaceutical ingredients (APIs) and in selected cases investigated its properties.

SELECTED PUBLICATIONS

1. Pramod K. Goswami, Ram Thaimattam and A. Ramanan, Multiple Crystal Forms of *p*-aminosalicylic acid: Salts, a salt co-crystal hydrate, co-crystal and co-crystal polymorph, *Cryst. Growth & Design* **2012**.
2. Monika Singh and Arunachalam Ramanan, Crystal engineering of POM based metal organic solids: The case of chromium molybdate cluster based metal complexes and coordination polymers, *Cryst. Growth & Design* **2011** 11 3381–3394.
3. J. Thomas and A. Ramanan, Growth of Copper Pyrazole Complex Templated Phosphomolybdates: Supramolecular Interactions Dictate Nucleation of A Crystal, *Crystall Growth & Design* **2008** 8 3390-3400.
4. Crystal Engineering - A Textbook by G.R. Desiraju, J.J. Vittal & A. Ramanan, World Scientific, 2011 <http://www.worldscibooks.com/chemistry/8060.html>

GROUP MEMBERS**Ph. D. scholars**

Dinesh Kumar, Pramod Kumar Goswami,
 Vineet Kumar, Balendra, Ms. Manju Singh

M. Tech scholars

Ms. Babeeta Shakya

M. Sc. Scholars

Somdeb Jana, Venkatesh S, Subrata Mandal



ASSOCIATE PROFESSOR

Born 1965, Srirangam, Tamil Nadu

Ph.D., IIT Madras, 1993

Post Doctoral Fellow: Bar-Ilan University,
Israel

Post Doctoral Fellow: University of Nijmegen, The Netherlands

Post Doctoral Fellow: Osaka University, Japan

Assistant Professor: Indian Institute of Technology Delhi, May 00 – Aug 08

Associate Professor: Indian Institute of Technology Delhi, Aug 2008-
present.

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**RESEARCH INTERESTS**

Our group's research activities mainly focus on the synthesis of biologically active natural products and their analogues from readily available and cheap carbohydrates as a "chiral pool" through some novel and interesting chemical transformations. Our main aim is to develop a "Diversity Oriented Approach" towards the synthesis of a library of skeletally distinct small and novel molecules with potential biological applications. Glycals (carbohydrate derived enol-ethers), which are perhaps the most versatile monosaccharides, are being extensively exploited by us, as convenient starting materials, to realize our research focus. Illustrative examples of natural products and their mimics that were synthesized recently in our lab include, 1-deoxy-L-gulonojirimycin, DMDP analogues, amino-DMDP analogues, chiral 2,6-diazabicyclo[3.2.1]octan-4,8-diol (a conformationally restricted diamine), 3-epipochonicine etc. Syntheses of natural products such as pochonicine, steviamine, conduramine, balanol etc. are being currently pursued and are in various stages of their syntheses. Our group students are also trained in carrying out the inhibition studies of new compounds that were/are being synthesized in our lab. Some of these compounds display high selectivity in inhibiting glycosidases.

SELECTED PUBLICATIONS

1. M. Ganesan, R. V. Salunke, N. Singh and N. G. Ramesh. Protecting Group Directed Diversity During Mitsunobu Cyclization of a Carbohydrate Derived Diamino Triol. Synthesis of Novel Bridged Bicyclic and Six-membered Iminocyclitols. *Org. Biomol. Chem.* **2013**, DOI:10.1039/c2ob27000e
2. S. Martín ez-Montero, S. Fernández, Y. S. Sanghvi, J. Chattopadhyaya, M. Ganesan, N. G. Ramesh. V. Gotor, and M. Ferrero. Design and Divergent Synthesis of Aza Nucleosides from a Chiral Imino Sugar. *J. Org. Chem.*, **2012**, *77*, 4671-4678.
3. P. Nagaraj and N. G. Ramesh. InCl₃ Catalyzed Rapid 1,3-Alkoxy Migration of Glycal Ethers: Stereo selective Synthesis of Unsaturated- α -O-glycosides and an α , α -(1 \rightarrow 1)-linked Disaccharide. *Eur. J. Org. Chem.* **2008**, 4607-4614.
4. V. Kumar and N. G. Ramesh. Iodine Catalyzed One-pot Diamination of Glycals with Chloramine-T: A New Approach to 2-Amino- β -glycosylamines for Applications in N-glycopeptide Synthesis. *Chem. Commun.* **2006**, 4952-4954.

**GROUP MEMBERS****Ph. D. scholars**

Rahul Vilas Salunke, Venkatesan, S., Vimal Kant Harit,
Umesh Kumar Mishra

M. Sc. scholars

Arup Roy

ASSISTANT PROFESSOR

Born 1974, New Delhi
 Ph.D., IISc Bangalore, 2004
 Post Doctoral Fellow: LMU Munich
 Post Doctoral Fellow: TU Dresden
 Assistant Professor: Indian Institute of Technology Bombay, Jan 08 – Jun 08
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**RESEARCH INTERESTS**

Our research focuses on the synthesis and applications of nanocrystals: in particular semiconductor nanocrystals or quantum dots. The interest in nanocrystals stems from the fact that these tiny fragments of matter exhibit properties dependent on the size of the crystals. Semiconductors offer the possibility of obtaining fluorescence owing to excitation decay across the band gap. The band gap of a semiconductor, and therefore the energy of emission, can be tuned by changing the size of the nanocrystals in accordance with the quantum confinement effects. Our group concentrates mainly on the group II-VI chalcogenides, namely that of cadmium and zinc for the visible region of the electromagnetic spectrum, group IV-VI semiconductors such as PbS and PbSe for the infra-red region. Apart from utilizing the emissive properties of these materials in light emitting devices (LEDs), the group is actively involved in researching new materials exhibiting bright luminescence; the ultimate aim being applications in LEDs, photovoltaics and biological tagging applications. The group is also working on developing less toxic materials as an alternative to cadmium chalcogenides. Here we mainly focus on doped oxide systems. Doping also opens the door to magnetism; another area of interest to the group. We use iron oxide nanocrystals for medical diagnostics and treatment. The excitement of creating and studying new materials drives the group.

SELECTED PUBLICATIONS

1. Nanopatterned Cadmium Selenide Langmuir-Blodgett Platform for Leukemia Detection, A. Sharma, C. Pandey, Z. Mathuru, U. Soni, S. Sapra, S. Gajjala, M. Pandey, T. Chatterjee, B. D. Malhotra, *Anal. Chem.* **84**, 3082 (2012)..
2. Localized surface plasmon resonance-based fiber optic U-shaped biosensor for the detection of blood glucose, S. K. Srivastava, V. Arora, S. Sapra, B. D. Gupta, *Plasmonics* **7**, 261 (2012).
3. The importance of surface in core-shell semiconductor nanocrystals, U. Soni, S. Sapra, *J. Phys. Chem. C* **114**, 22514 (2010)
4. Origin of the Enhanced Photoluminescence from Semiconductor CdSe Nanocrystals, D. D. Sarma, A. Nag, P. Santra, A. Kumar, S. Sapra, P. Mahadevan, *J. Phys. Chem. Lett.* **1**, 2149 (2010).
5. Sapra S., Sarma, D. D. Evolution of the electronic structure with size in II-VI semiconductor nanocrystals. *Phys. Rev. B* **2004**, *69*, 125304.

**GROUP MEMBERS****Ph. D. scholars**

Udit Soni, Vikas Arora, Anuushka Pal, Aditya Sharma, Razi Ahmad, Sushma Yadav, Mona Mittal

M. Tech scholars

Sulekha Yadav

M. Sc. scholars

Amitrajit Mukherjee, Suraj Naskar, Sajan Singh

PROFESSOR

Born in Kharagpur, West Bengal, Ravi Shankar obtained his Ph.D. from Panjab University, Chandigarh under the supervision of Prof. S. P. Narula in 1985. He was a CNRS fellow with Prof. Robert Corriu at the University of Montpellier, France before joining Panjab University, Chandigarh, in 1988 as a UGC Research Scientist and subsequently as a faculty in 1995. He then moved to Indian Institute of Technology Delhi in 1997.

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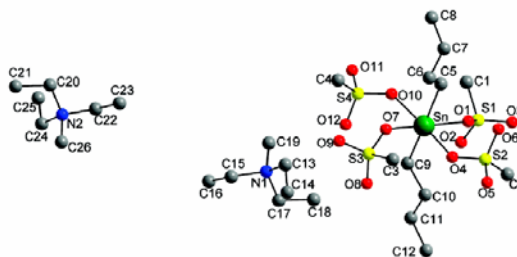
Ph: +91-11-2659 1513

**RESEARCH INTERESTS**

Inorganic Polymers, Organometallic Chemistry/ Coordination chemistry of silicon, germanium and tin

His current research interests are development of new methodologies for the design and synthesis of Organotin coordination polymers/metal-directed supramolecular assemblies/functional organosilicon polymers and their applications.

*Crystal Structure of a
Diorganostannate*

**SELECTED PUBLICATIONS**

1. Shankar, R.; Singh, A. P.; Jain, A.; Kociok-Köhn, G.; Molloy, K. C., "Synthesis and characterization of di/triorganostannates bearing tin-sulfonate bonds" *Inorganica Chimica Acta* **2012**, 387, 420-425.
2. Shankar, R.; Jain, A.; Kociok-Köhn, G.; Molloy, K. C., "Diorganotin-based coordination polymers derived from sulfonate/phosphonate/phosphono-carboxylate ligands" *Inorganic Chemistry* **2011**, 50, 1339-1350
3. Shankar, R.; Sahoo, U.; Shahi, V., "Synthesis and characterization of fluorescent polymer-metal nanocomposites comprising of Poly(silylene-co-silyne)s and silver nanoparticles" *Macromolecules* **2011**, 44, 3240-3249
4. Shankar, R.; Jain, A.; Kociok-Köhn, G.; Mohan, M. F.; Molloy, K. C. Cleavage of Sn-C and S-C_{alkyl} bonds on an organotin scaffold—Synthesis and characterization of a novel organotin-sulfite cluster bearing methyltin- and dimethyltin fragments" *Inorganic Chemistry*, **2010**, 49, 4708-4715
5. Shankar, R.; Shahi, V.; Sahoo, U., "A comparative study of linear poly(alkylarylsilane)s as reducing agents towards Ag(I) and Pd(II) ions—Synthesis of polymer-metal nanocomposites with variable size domains of metal nanoparticles" *Chemistry of Material* **2010**, 22, 1367-1375.

GROUP MEMBERS**Ph. D. scholars**

Rohit Singh, Meenal Asija, Manchal Chaudhary, Nisha Singla, Swati Mendiratta, Bhawna Jangir

M. Tech scholars

Asmita Sharma

M. Sc. scholars

S. Venkateswarlu



PROFESSOR

Born Aligarh, Uttar Pradesh.

Ph. D. (Prof. R. P. Singh), University of Delhi, 1977.

Indian Institute of Technology Delhi, 1982-present.

Coordinator, "Modern Trends in Inorganic Chemistry XI", December 2005.

Honorary member (external) of Science Faculty, University of Delhi (2002-2005; 2008-present).

Research Associate (Prof. W. R. McWhinnie), University of Aston, Birmingham, U. K.

Visiting Professor, Pohang University of Science and Technology, South Korea, Oct. 2007.



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RESEARCH INTERESTS

Broad research interests are: "Coordination and Organometallic Chemistry, Metal promoted catalytic organic reactions, Solid Phase Extraction of Metal Ions and its Applications." Ligand Chemistry of Tellurium / Selenium (Synthesis and Structural Chemistry), Ligands having Organosilicon Back bone (building blocks for metal containing supramolecular structures) and Catalyst Designing using Organochalcogen Ligands for C-C coupling Reaction (Heck, Suzuki and Negishi), Oxidation and Transfer Hydrogenation are Focus of Current research.

SELECTED PUBLICATIONS

- Efficient catalysis of transfer hydrogenation of ketones and oxidation of alcohols with newly designed half sandwich rhodium(III) and iridium(III) complexes of half pincer chalcogenated pyridines, O. Prakash, P. Singh, G. Mukherjee and A. K. Singh *Organometallics*, 2012, **31**, 3379.
- Didocosyl selenide stabilized recyclable Pd(0) nanoparticles and coordinated palladium(II) as efficient catalysts for Suzuki-Miyaura coupling, G. K. Rao, A. Kumar, B. Kumar and A. K. Singh, *Dalton Trans.*, 2012, **41**, 4306.
- Palladium(II)-selenated Schiff base complex catalyzed Suzuki-Miyaura coupling: dependence of efficiency on alkyl chain length of ligand, G. K. Rao, A. Kumar, B. Kumar, D. Kumar and A. K. Singh, *Dalton Trans.*, 2012, **41**, 1931.
- Palladacycle containing nitrogen and selenium: highly active pre-catalyst for Suzuki-Miyaura coupling reaction converted unprecedentedly into nano sized Pd₁₇Se₁₅ G. K. Rao, A. Kumar, J. Ahmed and A. K. Singh, *Chem. Commun.*, 2010, **46**, 5954.

**GROUP MEMBERS****Ph. D. scholars**

Om Prakash, Kamal Nayan Sharma, Fariha Saleem, Hemant Joshi, Anita Kharakwal, Satyendra Kumar, Mahabir Pratap Singh, Alpesh Kumar Sharma

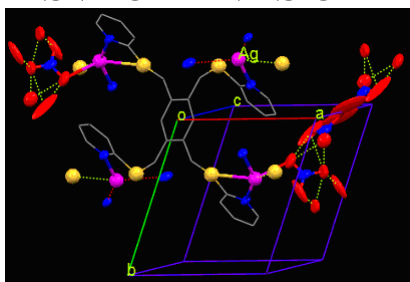
PROFESSOR

Born Faizabad (U.P). Ph.D. (Prof. T. N. Srivastava) Lucknow University.

Recipient of (MONBUSHO) fellowship (1993-94) (Ministry of Education, Science, Sports and culture, Japan). Visiting Scientist (2003-2004) Kyoto University, Japan [Invited by Association of International Education, Japan (AIEJ)]. Visiting Guest Scholar (June 2001 and Dec. 2001) [Invited by Kyoto University Foundation and Association of International Education, Japan (AIEJ)]

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**RESEARCH INTERESTS**

* Design and synthesis of polynucleating and polyfunctional chalcogens (S, Se and Te) and organochalcogen derivatives and their potential applications in the area of supramolecular functional materials.

* C-X (X = S, Se & Te) bond formation via C-F bond activation reactions and their Application in Organic Synthesis and Catalysis

* Studies on Environmentally Reactive Inorganic and Organic intermediates and Elusive Nitrogenous gases and their Entrapment via Organochalcogen based Supramolecular species.

SELECTED PUBLICATIONS

1. An organoselenium-based highly sensitive and selective fluorescent "turn-on" probe for the Hg²⁺ ion, Abhishek Kumar and Jai Deo Singh, *Inorg. Chem.* **2012**, *51*, 772-774.
2. Sterically encumbered hexakis(alkylseleno)benzenes: Conformational behavior of hexakis(*iso*-propylselenomethyl)benzene towards Hg²⁺ ions on selective recognition, Jai Deo Singh, Monika Maheshwari, Shabana Khan and Raymond J. Butcher, *Tetrahedron Lett.* **2008**, *49*, 117-121.
3. Synthesis of lariat organochalcogenoethers based on azacalix[3]arenes for the potentiometric detection of [UO₂]²⁺ ions, Khan, S.; Singh, J. D.; Mahajan, R. K.; Sood, P. *Tetrahedron Lett.* **2007**, *48*, 3605-3608.
4. Synthesis of sterically encumbered organoselenium species and their selectivity towards Hg(II) ions Maheshwari, M.; Khan, S.; Singh, J. D. *Tetrahedron Lett.* **2007**, *48*, 4737-4741

**GROUP MEMBERS****Ph. D. Awarded (2012)**

Abhishek Kumar, Neeru and Geeta Tiwari

Ph. D. scholars

Joseph Nallamuthu Prabhu Abraham, Anuj Kumar, Dolly Yadav and Mantesh Kumari Yadav

M. Tech scholars

Suman Yadav and Km. Suman

Staff Members

Sushma Madan
Superintendent



J.P.Singh
Tech. Supdt.



Munna Lal
Jr. Tech.Supdt.



Vinod Kumar
Jr. Superintendent



Keshav Dev
Jr. Tech. Supdt.



J.P.Sharma
Jr. Tech. Supdt.



P.S.Rawat
Jr. Tech. Supdt.



Aalok P. Yadav
Jr. Tech. Supdt.



Saroj Batra
Jr. Superintendent



Bhoopender Singh
Jr. Tech. Supdt.



Virander Kumar Sharma
Jr. Tech. Supdt.



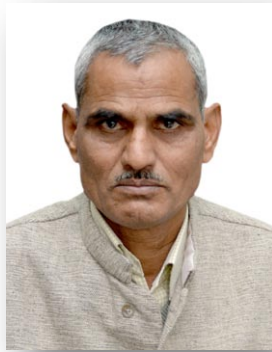
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Sunil
Jr. Lab. Asstt.



Kishan Kumar
Attendent



Kuldeep Chand
Attendent



Dilbagh Singh
Attendent



Satya Prakash
Attendent



Heads of the Department

S.No.	Name of Faculty	Period
1.	Prof. F. Ramford	13-09-1963 to 08-12-1964
2.	Prof. V. Ramakrishna	09-12-1964 to 30-06-1970
3.	Prof. R.D. Dua	01-07-1970 to 31-08-1976
4.	Prof. J.C. Ahluwalia	01-09-1976 to 31.08.1979
5.	Prof. R.P. Gandhi	01-09-1979 to 31-08-1982
6.	Prof. N.K. Jha	01-09-1982 to 31-08-1985
7.	Prof. B.L. Khandelwal	01-09-1985 to 31-08-1989
8.	Prof. A.S.N. Murthy	01-09-1989 to 31-08-1992
9.	Prof. G.N. Rao	01-09-1992 to 31-08-1995
10.	Prof. N.K. Jha	01-09-1995 to 31-08-1996
11.	Prof. A.S. Brar	01-09-1996 to 31-12-1998
12.	Prof. M.N. Gupta	01-01-1999 to 31-08-2001
13.	Prof. H.M. Chawla	01-09-2001 to 31-08-2004
14.	Prof. U.K. Nadir	01-09-2004 to 31-08-2006
15.	Prof. B. Jayaram	01-09-2006 to 31-08-2009
16.	Prof. A.K. Singh	01-09-2009 to 31-08-2012
17.	Prof. A. Ramanan	01-09-2012 to continue

Former Faculty

Dr. F. Ramford
Dr. V. Ramakrishna
Dr. S.L. Chawla
Dr. J.L. Narula
Dr. L.D. Ahuja
Dr. M.T. Chiplonkar
Dr. A. P. Rao
Dr. S. Ramachandra Rao
Dr. R.D. Dua
Dr. G.V. Jere
Dr. G. Basu
Dr. S.K. Suri
Dr. P.S. Rao
Dr. J.C. Ahulwalia
Dr. B.L. Khandelwal
Dr. N.K. Jha
Dr. M.M. Bhutani
Dr. R.K. Bansal
Dr. A.S.N. Murthy
Dr. G.N. Rao
Dr. R. Varadarajan
Dr. B.K. Puri
Dr. R.C. Anand
Dr. U.K. Nadir
Dr. A.S. Brar
Dr. I.K. Verma
Dr. Padma Vasudevan

FORMER STAFF MEMBERS

1. Sh. B.D. Phuloria
2. Sh. Tara Chand
3. Sh. V.L. Sharma
4. Sh. Azad Singh
5. Sh. Durga Singh
6. Sh. R.C. Golani
7. Sh. D. Mehtani
8. Smt. Shanta Dua
9. Sh. R.K. Gupta
10. Sh. Ram Singh
11. Sh. Anoop Singh
12. Sh. Nand Lal
13. Sh. Bane Singh
14. Sh. P.N. Prasad
15. Sh. N.D. Nagpal
16. Sh. Subhash Chand
17. Sh. C.P. Verma
18. Sh. G.K. Pandita
19. Sh. L.C. Sharma
20. Sh. Sanjeev Kumar
21. Sh. P.N. Menon
22. Sh. Munni Lal
23. Sh. T.R. Sharma
24. Sh. S.P.L. Rana
25. Sh. O.C. Sood
26. Sh. L.R. Gupta
27. Sh. Phool Singh
28. Sh. A.A. Rasheed
29. Sh. G.N. Sharma
30. Ms. Kiran Sachdeve
31. Ms. Kasturi Kumar
32. Ms. Amarjit Singh
33. Ms. Seema Arora
34. Sh. Vikram Singh
35. Sh. M.S. Patwal
36. Sh. G.K. Pandita
37. Sh. Sanjeev Kumar
38. Sh. Bishamber Dayal
39. Sh. A.K. Agarwal
40. Sh. R.K. Singh
41. Sh. A.K. Sehgal
42. Sh. Narayan Singh

Ph.D. Alumni in the Past Five Decades (1963-2012)

1968-1979

S. No.	Name of Student	Year	Current Affiliation
1.	(LATE) S.K. SURI	1968	
2.	K C NARANG	1969	Managing Director, Dalmia Cements
3.	BHOOMITRA CHOPRA	1971	Professor (Retired), Miranda College, Delhi
4.	R K SOOD	1972	
5.	S P DUBEY	1972	
6.	M S PRASAD	1972	
7.	R C MAHESHWARI	1973	Professor (Retired), Centre for Rural Development & Technology, IIT Delhi
8.	(LATE) U S TEWARI	1973	
9.	S S GROVER	1973	
10.	SYED SHAMIM AHMAD RIZVI	1973	
11.	BIMLA KWATRA	1974	
12.	MAHENDRA PATEL	1974	
13.	GOPAL DASS GUPTA	1975	
14.	SURENDRA SHARMA	1975	
15.	V P VERMA	1975	
16.	KRISHNA RAINA	1976	
17.	M P RAO	1976	
18.	S C RUSTAGI	1976	
19.	S K SYAL	1976	
20.	GNANA BABU	1977	
21.	A S BRAR	1977	Vice Chancellor, Guru Nanak Dev University, Amritsar
22.	ASHUTOSH DIXIT	1977	
23.	C K GEETHA	1977	
24.	RITA MITRA	1977	
25.	VASANTHA RAMAN	1977	Scientist (Retired), NPL, Delhi
26.	M T SANTHAMMA	1977	
27.	PANKAJ L YADAV	1977	
28.	SHASHI ANAND	1977	
29.	AKHILESH SAXENA	1978	Sr. Manager (Retired), Punjab National Bank, Delhi
30.	HARI CHAND ARORA	1978	
31.	CHANDU RAM JAGGA	1978	Chief Scientific Officer (Retired), ITMMEC, IIT Delhi
32.	A VARDARAJULU	1978	
33.	VEENA GUPTA (VEENA CHOUDHARY)	1978	Professor, Centre for Polymer Science & Technology, IIT Delhi
34.	MD AMJAD HOSSAIN	1978	
35.	SRI KRISHNA PATNAIK	1978	
36.	L C ROHELA	1979	
37.	HEMA JOSHI	1979	
38.	SUDAGAR MAL	1979	

1980-1989

39.	V S CHOUHAN	1980	
40.	Md ZAKI KIRMANI	1980	
41.	M S PRASAD	1980	
42.	KRISHNA Kr SHARMA	1980	
43.	SHIV Kr SRIVASTAVA	1980	
44.	HARISH CHANDER GOLANI	1980	
45.	NARENDRA Kr SHARMA	1980	
46.	S M RALHAN	1980	
47.	AMRITA KUMARI (AMRITA SEHRAWAT)	1980	Principal Consultant, Keane Incorporated, Bloomington, USA

48.	KANTA SETHI	1980	
49.	MAMTA GOUTAM BASAK	1980	
50.	S M KOUSHIK	1980	
51.	K ANJANEYULU	1981	
52.	SANTOSH	1981	Professor, Centre for Rural Development & Technology, IIT Delhi
53.	SATISH NANDA	1981	
54.	S NARAYANAN	1981	
55.	P S VISWANATHAN	1981	
56.	N L N SHARMA	1981	
57.	D K BANERJEE	1981	
58.	S MEERA	1982	
59.	G VASUDEV	1982	
60.	A K MISHRA	1982	
61.	SHIV KUMAR DUBEY	1982	General Manager (Retired), NTPC, Noida
62.	N ROY CHOUDHURY	1982	Staff Research Scientist, ICGEB, New Delhi
63.	RADHEYSYAM PRASAD	1982	
64.	R V JASRA	1982	Deputy Director, Central Salt and Marine Sciences Research Institute, Bhavnagar, Gujarat
65.	KAMLESH K GUPTA	1982	
66.	KRISHNA KUMAR	1982	
67.	MIRA SUD (MIRA KUSHAL)	1983	Professor, Deshbandhu College, University of Delhi
68.	A RAM REDDY	1983	
69.	MERY JOSEPH	1983	
70.	HEMANT K PUROHIT	1983	
71.	Y P RAO	1983	
72.	LATHA SURENDRA	1983	
73.	BUTTI S RAO	1983	
74.	VIRENDRA KUMAR KOUL	1983	
75.	MAJEET SINGH CHOUDHURY	1984	
76.	HARI SINGH NALWA	1984	President & CEO, American Scientific Publishers
77.	MAHINDER K GUPTA	1984	
78.	CHITRA KIRTANE	1984	
79.	SHARAD KUMAR MEHATA	1984	
80.	C R MURTHY	1984	
81.	SHOBA RANGANATHAN	1984	Professor, Bioinformatics, Macquarie University, Sydney, Australia
82.	ANAND PRAKASH BHARADWAJ	1984	
83.	(LATE) PROMOD KUMAR SINGH	1984	
84.	CHAMAN LAL SETHI	1984	
85.	HARISH RANJAN	1984	
86.	ABDUL WASEY	1984	
87.	SUNIL KUMAR JAIN	1984	
88.	SHRI HARSH	1984	
89.	MOHAN SINGH M RAWAT	1985	Professor, Department of Chemistry, H.N.B. Garhwal University, Srinagar, Uttrakhand
90.	D R RAJU	1985	
91.	K SUDARSHAN REDDY	1985	
92.	K R MURTY	1985	
93.	ASHOK KUMAR	1985	
94.	RAKESH KUMAR SINGHAL	1986	
95.	Y S NEGI	1986	
96.	Md FARID HUSSAIN	1986	Department of Chemistry, North Eastern Regional Institute of Science and Technology, Nirjuli, Itanagar, Arunachal Pradesh
97.	ROMA LAHIRI	1986	
98.	SHIROMANI SHARMA	1986	
99.	ALOK CHANDRA MISHRA	1986	
100.	INDRA RAJU	1986	
101.	SUNIL KOCHHAR	1986	
102.	RAJIV BHAT	1987	Professor, School of Biotechnology,

103.	RISHI SRIVASTAVA	1987	JNU, New Delhi Manager, National Institute of Secondary Steel Technology, New Delhi
104.	OM PAL SINGH	1987	
105.	D M JOSHI	1987	Professor, H.N.B. Garhwal University, Srinagar, Uttrakhand
106.	RAM CHANDRA ARYAN	1987	Group Leader, Organic Chemistry Div. Ranbaxy Research Laboratories, Gurgaon
107.	SANJAY KUMAR	1987	
108.	BAIDYANATH THAKUR	1987	Chemistry Department, C. M. Science College, Darbhanga, Bihar
109.	SUNIL Kr MATTEY	1987	
110.	MOHAN PAL SINGH ISHAR	1987	Head, Dept. of Pharmaceutical Sciences, GNDU, Amritsar
111.	KUNAL CHANDER	1987	
112.	RAKESH KUMAR RAWLEY	1987	Senior Scientist, Water Resources Management Div., Advanced Materials and Processing Research Institute, Bhopal.
113.	V RAMESH	1988	
114.	RAJ KUMAR DHAR	1988	Director, Intellectual Property Rights Div., ZydusCadilla, USA
115.	ANIL WALI	1988	Managing Director, FITT, IIT Delhi
116.	JAYANT Kr GHOSH	1988	
117.	DONGARA RAJESHWER	1988	
118.	Y S RAJPUT	1988	Head, ABC Division/Public Information Officer, NDRI, Karnal, Haryana
119.	SANJIV Kr MAZUMDAR	1989	Deputy General Manager, IOCL, R&D Centre, Faridabad
120.	NIRUPAMA TIWARI	1989	
121.	SHIV KUMAR SHARMA	1989	
122.	ALKA KAMRA	1989	
123.	N S BHANDARI	1989	
124.	NAND KISHORE	1989	Professor, Department of Chemistry, IIT Bombay
125.	RAJIV KISHORE JHA	1989	

1990-1999

126.	I K PANDEY	1990	Director, N.C. Institute of Technology, Isarana, Panipat, Haryana
127.	SHAILJA VAIDYA	1991	Joint Director, DBT, New Delhi
128.	JYOTHI ABLURI	1991	
129.	S K GUPTA	1991	Professor, School of studies in Chemistry, Jiwaji University, Gwalior
130.	NAOREM HOMENDRA	1991	Dept. of Chemistry, Manipur University, Imphal
131.	VINOD KUMAR SHARMA	1991	
132.	MANISH PATHAK	1991	
133.	GURPREET SINGH KAPUR	1991	Chief Research Manager, IOCL, R&D Centre, Faridabad
134.	VINOD SRIVASTAVA	1991	
135.	J K BASUMATARY	1991	
136.	SUNIL KUMAR KHARE	1991	Professor, Department of Chemistry, IIT Delhi.
137.	T SUDERSHAN RAO	1992	
138.	RAMESHWAR JHA	1992	
139.	R ANANDA KUMAR	1992	
140.	ARUN KUMAR SINHA	1992	Scientist F, NPP Division, I.H.B.T., C.S.I.R., Palampur, H.P.
141.	RAMAN L SHARMA	1992	
142.	INDER KUMAR SINGH	1992	
143.	AKHLESH GUPTA	1992	
144.	AJIT KUMAR MITRA	1992	
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175.	RAJESH HARIBHANJI TALE	1999	235.	SAROJA LOCHAN SAMAL	2004
176.	BANALA BHASKAR	1999	236.	PRADYUMNA KUMAR	2004
2000-2009			MISHRA		
177.	SEEMA CHAUHAN	2000	237.	BISWAJIT SAHA	2004
178.	SHATRUDHAN SHARMA	2000	238.	SARIKA MALIK	2004
			239.	GAURAV SAINI	2004
			240.	SANDEEP GUPTA	2005
			241.	DINESH KUMAR	2005
			242.	AJAY KUMAR	2005
			243.	MRINAL GHOSH	2005

**1966-1969**

1.	KASHMIRI LAI MITTAL	1966
2.	PRITHIWANT SINGH SINDHU	1966
61.	MISS ANSHU GUPTA	1984
62.	MISS MANGALA CELE	1984
63.	DEBA KALYAN MOHANTY	1984
64.	PRADEEP KUMAR PUJARI	1984
65.	MISS MINNIC VARGHOSE	1984
66.	MISS RADHIKA PRADHAN	1984
67.	MD. SAYEEDUR RAHMAN	1984
68.	SANJAY AGARWAL	1984
69.	K RAMESH	1985
70.	R JAYASHREE	1985
71.	SUNIL D PANDIT	1985
72.	ALKA RASTOGI	1985
73.	ALOK GOEL	1985
74.	SULEKHA RAO	1985
75.	PRITI SHARMA	1985
76.	S VAIDESWARAN	1985
77.	RADHIKA SATSANGEE	1985
78.	VINAY KUMAR KARAN	1985
79.	RANJAN BATHEJA	1985
80.	SHIULI GUPTA	1985
81.	ASHOK GUPTA	1985
82.	SRIKANTH SRINIVASAN	1985
83.	SUNITA SHOKEEN	1985
84.	ASHOK JUNEJA	1985
85.	GURJIT SINGH KAPUR	1985
86.	ANIL KUMAR JAIN	1985
87.	B S M KUMAR	1986
88.	BINDU BHUGRA	1986
89.	RITU BHATNAGAR	1986
90.	REENA GAKHAR	1986
91.	INDU JAIN	1986
92.	INDIRA NATARAJAN	1986
93.	V PADMA	1986
94.	B KANAKA RATNAM	1986
95.	KRISHNA KUMAR SHARMA	1986
96.	SUSHMITA MOHANTY	1986
97.	P S EASHWARY	1986
98.	PRAKASH CHANDRA JHA	1986
99.	DEPENDRA PATHAK	1986
100.	HARPAL KAUR	1986
101.	MANISHA GUPTA	1986
102.	HARINDER SINGH	1986
103.	ASHOK KUMAR	1986
104.	RAVINDER KUMAR TANWAR	1986
105.	SUDHIR KUMAR SHARMA	1986
106.	SUMAN SHARMA	1986
107.	NIROJ KUMAR MISHRA	1987
108.	SURJIT BHUJABAL	1987
109.	ANJU	1987
110.	T G SAMPATH KUMAR	1987
112.	ALOK KUMAR TYAGI	1987
113.	ANIL KUMAR SINHA	1987
114.	NEERAJ ADYA	1987
115.	RITU AHLUWAHA	1987
116.	ASHISH KUMAR MUKHERJEE	1987
117.	SANJEEV K SINDWANI	1987
118.	V SHEELA	1987

54.	MISS MONA SISHODHIA	1983
55.	MISS A. MISHRA	1983
56.	SATISH KUMAR SOTWAR	1983
57.	NAVIN BANSAL	1984
58.	PRALIK GHOSH	1984
59.	TALLURI SHEKHAR	1984
60.	MISS BANDANA	1984

KHANDELWAL

127.	ANIL SETHI	1987
128.	RANJAN BHATIA	1987
129.	SUNDEEP MALIK	1987
130.	B RAMANATHAN	1987
131.	SAVITA RAM	1987
132.	B RAJANI KANTH	1987
133.	MUKESH ARORA	1987
134.	KAMINI SEHGAL	1987
135.	VARTIKA JAIN	1988
136.	ANUP MADAN	1988
137.	ANJU MATHUR	1988
138.	SUDHA JUNEJA	1988
139.	RENU BHAREL	1988
140.	V BHUVANESHWARI	1988
141.	SHAIENDRA KUMAR SINHA	1988
142.	R SARADHA LALITHA	1988
143.	RAMESH KUMARI	1988
144.	GEETA VARADARAJAN	1988
145.	MEKHALA RAMACHANDRAN	1988
146.	SUNITA WADHWA	1988
147.	VINLTA DUBEY	1988
148.	RAMAN BATHEJA	1988
149.	CHANDRA VANU SOM	1988
150.	PRADEEP KUMAR	1988
151.	SOMA HAIDER	1988
152.	SUNIL KUMAR JHA	1988
153.	RAMA	1988
154.	SANJEEV KUMAR SINGH	1988

PARMAR

155.	JYOTI PURI	1988
156.	NARINDER SINGH RANA	1988
157.	SANJEEV MOHANTY	1988
158.	LALITA UTRAJA	1988
159.	M. MADHUMATI	1988
160.	DEEPA GANGULY	1988
161.	RITU MAHESHWARI	1989
162.	SHARAD RAIZADA	1989
163.	RAKESH KUMAR SINGHAL	1989
164.	PURNIMA GROVER	1989
165.	NEENA DASGUPTA	1989
166.	SANJAY BALANI	1989
167.	SEEMA AGARWAL	1989
168.	S N JAYASRI LALITHA	1989
169.	K RAMYA	1989
170.	BENU SETHI	1989
171.	PUNEETA GANDHI	1989
172.	GEETHA BHASKARAN	1989
173.	MEETA PANDEY	1989
174.	OPENDER SINGH	1989
175.	K SRINIVASAN	1989
176.	RAJIV DUA	1989
177.	PANKAJ SHARMA	1989
178.	N SRIKANTH	1989
179.	ARUN GOYAL	1989
180.	SANJEEV BHARDWAJ	1989
181.	MANOJ JAIN	1989
182.	VARTIKA JAIN	1989
183.	ANUJ MADAN	1989



119.	MADHULIKA TEWARI	1987	184.	ANJU MATHUR	1989
120.	S BANUMATHI	1987	185.	SUDHA JUNEJA	1989
121.	B VAIJAYNTHI	1987	186.	RENU BHAREL	1989
122.	RITA SINHA	1987	187.	V. BHUVANESHWARI	1989
123.	ANAND SRIVASTAVA	1987	188.	LALITHA UTREJA	1989
124.	MADHAV CHANDER SARKAR	1987	189.	SHAIENDRA KUMAR	1989
			SHINHA		
125.	DINESH BABBAR	1987	190.	R. SARADHA LALITHA	1989
126.	K RAVINDRAN	1987	191.	RAMESH KUMARI	1989
192.	GEETA VARADARAJAN	1989	254.	SHRUTI SAHAY	1992
193.	MEKHALA RAMACHANDRAN	1989	255.	DEEPA BASU	1992
194.	SUNITA WADHWA	1989	256.	POONAM AGARWAL	1992
195.	VINITA DUBEY	1989	257.	RASHMI JAIN	1992
196.	RAMAN BATHEJA	1989	258.	PRAVEEN SHANKAR	1992
197.	CHANDRA VANUSOM	1989	259.	SHYAM KISHOR	1992
198.	PRADEEP KUMAR	1989	260.	VINEET GUPTA	1992
199.	SOMA HALDER	1989	261.	BINDU NAIR	1992
200.	SUNIL KUMAR JHA	1989	262.	SHASHANK DEEP	1992
201.	RAMA	1989	263.	R. DEEP NAIR	1992
202.	SANJEEV KUMAR SINGH	1989	264.	S. K. CHOUDHARY	1992
	PARMAR		265.	SUDHIR RANJAN	1992
203.	JYOTI PURI	1989	266.	PURNIMA JAIN	1992
204.	NARINDER SINGH RANA	1989	267.	G. H. S. PRASAD	1992
205.	SANJEEV MOHANTY	1989	268.	RAHUL SEN	1992
			269.	RAJESH JHA	1992
			270.	NIRJHAR KARMAKAR	1992
			271.	RANGANATHAN V.	1992
			272.	MANJUL	1992
			273.	SANJEEV BANSAL	1992
			274.	SANGEETA GUMA	1992
			275.	SEEMA GOGIA	1992
			276.	PARITOSH SHUKLA	1992
			277.	RUCHI MEHROTRA	1992
			278.	NGUYEH THI BICH THU	1992
			279.	SANJAY KUMAR SHAHI	1992
			280.	KUNAL KUMAR	1992
			281.	MADHUSHREE GHOSH	1993
			282.	NEERAJ GUPTA	1993
			283.	AVINASH KUMAR JAIN	1993
			284.	SHALINA BAJAJ	1993
			285.	ARCHANA BHARADWAJ	1993
			286.	MEENAKSHI NARANG	1993
			287.	YOGESH GOEL	1993
			288.	SEEMA KATIYAR	1993
			289.	AMIT RAJAN	1993
			290.	RAJIV JAIN	1993
			291.	RAJINDER BHASIN	1993
			292.	SANJEEV KUMAR	1993
			KHANDELWAL		
			293.	DHEERAJ SHARMA	1993
			294.	MD. SHAHID NAYEEM	1993
			295.	C. V. KALYAN KUMAR	1993
			296.	SONIA MER	1993
			297.	SANJAY KUMAR BALI	1993
			298.	JAYARAMAN K.	1993
			299.	MUNIA MUKHARJEE	1994
			300.	PIYALI DASGUPTA	1994
			301.	KUMAR AJEET	1994
			302.	PURNIMA KHANDELWAL	1994
			303.	SAMINADEN PILLAY	1994
			KANAKSABEE		
			304.	SANJAY GUPTA	1994
			305.	PRIYA JAIN	1994
			306.	SUBHASHISH MUKHERJEE	1994
			307.	SANDIPAN SEN	1994



423.	GEETA KHATER PAL	1997	424.	KANIKA VATS	2000
425.	UTTAM DUTTA	1997	426.	RASHMI BAGRI	2000
427.	SATISH KUMAR	1997	428.	RANJAN MITRA	2000
429.	BHUVNESH KUMAR	1997	430.	SHIKHA MANGIA	2000
431.	BRAHMANANDA GHOSH	1997	432.	JYOTI MADAN	2000
433.	S. SUNIL	1997	434.	NAVEEN KUMAR	2000
435.	GHANSHYAM CHATURVEDI	1997	436.	KAVITA ABROL	2000
437.	RAJESH SAINI	1997	438.	MANPREET KOUR	2000
439.	DIPALI RUHELA	1998	440.	SUMIT BALI	2000
441.	ANJALI SOLANKI	1998	442.	RASHMI SRIVASTAVA	2000
443.	PIYALEE CHAKRABARTI	2000	444.	SYED ALIPAYAM RIZVI	2003
445.	ABHA SEMUAL	2000	446.	AVISHEK GHOSH	2003
447.	MUKESH	2000	448.	KAMAKSHI GUPTA	2003
449.	ARTHI SRINIVASAN	2000	450.	SUNIL KUMAR	2003
451.	HUIDROM RABINDRO SINGH	2000	452.	SUDDHASATTWA NAD	2003
453.	VIJAYENDRA SINGH	2000	454.	G SOMESH KUMAR	2003
455.	REENU CHOPRA	2001	456.	POOJA ARORA	2003
457.	POOJA ARORA	2001	458.	ASAR AHMED	2003
459.	TRIPTA SAINI	2001	460.	MAYANGLAMBAM REBIKA DEVI	2003
461.	REEMA	2001	462.	SOURABH BANERJEE	2003
463.	MEETIKA RAWAT	2001	464.	SONIA GANDHI	2003
465.	SAHER AFSHAN SAIKH	2001	466.	SUPRIYA PUNIYANI	2003
467.	GURMEET SINGH	2001	468.	KULDEEP WADHWA	2003
469.	HARJEET SINGH	2001	470.	SHILPA KHURANA	2004
471.	DEBASIS KOLEY	2001	472.	VASUNDHRA KASHYAP	2004
473.	SUKHDEEP KAUR GAHALY	2001	474.	VANDANA SHAHI	2004
475.	PREETI MISHARA	2001	476.	SONALIKA VAIDYA	2004
477.	PANAJ MUKHOPADHAYAY	2001	478.	M NAHREN MANUEL	2004
479.	AMIT SACHDEVA	2001	480.	GAURAV SRIVASTAVA	2004
481.	KALYANI	2001	482.	ALEX JOHN	2004
483.	RUCH GARG	2001	484.	SMITA RAI	2004
485.	ASHUTOSH KUMAR	2001	486.	JENCY THOMAS	2004
487.	MAMIT SINGH	2001	488.	LEKHA GUPTA	2004
489.	ANIRBAN MUDI	2001	490.	HIMANSHU ARORA	2004
491.	PRANAY	2001	492.	MRIDUSMITA SAIKIA	2004
493.	HARISH CHANDRA PHULERIA	2001	494.	PAYAL MEHTA	2004
495.	SOUMYAJIT ROY	2001	496.	ABHISHEK KUMAR	2004
497.	PURNENDRU PRAHI	2001	498.	MAYANK MAYUKH	2004
499.	DHANANJAYA SOINDA WANJARI	2001	500.	SAMEER PATEL	2004
501.	AKHILESH TANWAR	2001	502.	DEBASHREE BASUDHAR	2004
503.	BRAHMI SHUKLA	2001	504.	TARUN CHOPRA	2004
505.	SANGHAMITRA MITRA	2002	506.	PRIYA GARG	2004
507.	GAURAV PANDE	2002	508.	TATHAGATA MUKHERJEE	2004
509.	SHUBHRA CHATURVEDI	2002	510.	PRANITA	2004
511.	SHARANI ROY	2002	512.	MANI PRABHA SINGH	2004
513.	NILANJAN GHOSH	2002	514.	ARYA RASTOGI	2004
515.	CHANDRANI ROY CHOWDHURY	2002	516.	RANGAN DATTA	2004
517.	RITIMONI RAJKHOWA	2002	518.	S BHUVANESWARI	2004
519.	MANMILAN SINGH	2002	520.	PARUL JAIN	2004
521.	KUMKUM BHUSHAN	2002	522.	MUKUL KUMAR SINGH	2004
523.	TEENA GOEL	2002	524.	VEENA KUMARI	2004
525.	VINOD KUMAR	2002	526.	SWAYAM MALLICK	2005
527.	VIKAS GARG	2002	528.	PIYUSH ANANT	2005
529.	DIVYA GOEL	2002	530.	RUCHI JAIN	2005
531.	ARTI JOSHI	2002	532.	NITI GARG	2005
533.	MOHAMMAD ADIL	2002	534.	SANDEEP KUMAR SHARMA	2005
535.	MANOJ KUMAR SHARMA	2002	536.	SUMANA SANYAL	2005
537.	EKTA KHURANA	2002	538.	P DEEPIKA	2005
539.	PROSENJIT CHATTOPADHYAY	2002	540.	SHIKHA MAHAJAN	2005
541.	POONAM SINGHAL	2002	542.	MANISH AGARWAL	2005
543.	PANKAJ RATHORE	2002	544.	VIJAY KUMAR	2005
545.	PRAVIN KUMAR SINGH	2002	546.	SONIA CHAHAR	2005
547.	SONY SOMAN	2002	548.	RITU GABA	2005
549.	RUCHIKA SHARMA	2002	550.	SANGEETA SETHI	2005
551.	DEEPSHIKHA ANGRISH	2003	552.	SACHIN KUMAR SAXENA	2005
553.	PARUL GUPTA	2003	554.	POONAM KAUSHIK	2005



681.	ADITI GUPTA	2008	682.	P BRAHMA REDDY	2010
683.	ANUPAM KUMAR CHAKRAVARTY	2008	684.	MD. JAVEED PASHA	2010
685.	RAJEEV RANJAN	2008	686.	JAYANTA KUNDU	2010
687.	RUMIT MAINI	2008	688.	KASINATH OJHA	2010
689.	PORANJYOTI BARUA	2008	690.	POULAMI DUTTA	2010
691.	JITENDRA SINGH	2008	692.	K JANGAREDDY	2010
693.	ASHOK KUMAR	2008	694.	VIKAS SAINI	2010
695.	CHANDAN KUMAR CHOUDHURY	2008	696.	SUJAY GARAI	2010
697.	NARENDRA KUMAR	2010	698.	SAMIM SARDAR	2012
699.	SHAHUL HAMEED. A.	2010	700.	BISWAJIT DINDA	2012
701.	KULDEEP CHAUHAN	2010	702.	SUBHENDU KUMAR DAS	2012
703.	PRANAB MAJHI	2010	704.	NAWSAD ALAM	2012
705.	MAYANGLAMBAM MANOLATA DEVI	2010	706.	SANJAY KUMAR	2012
707.	RAKESH SARKAR	2010	708.	JALAJ GUPTA	2012
709.	SIMON WATRE SANGMA	2010	710.	SUNIL KUMAR MAHATO	2012
711.	MD NAJBUL HOQUE	2010	712.	PANCHAM LAL GUPTA	2012
713.	ARUN KUMAR SHARMA	2010	714.	RENU SHARMA	2012
715.	SUBHAYAN DEY	2010	716.	AMBAVARAPU SIMHADIRAO	2012
717.	SESHAGIRI RAO K	2010	718.	JANEKA GARTIA	2012
719.	SOUMEN SINHABABU	2010	720.	PREETI VERMA	2012
721.	SAYANTANI SAHA	2010	722.	MANI KUMAR	2012
723.	MANOJ KUMAR SINGH	2010	724.	JOYDEV DUTTA	2012
725.	PRIYANKA	2010	726.	NAGURU RAGHAVENDER	2012
727.	ARITRA KUNDU	2010	728.	GALIPALLI RAMU	2012
729.	SUSHMA YADAV	2011	730.	SUBHAJIT DAS	2012
731.	ANKUR	2011	732.	ARPITA ROY	2012
733.	VARUN KUMAR RANA	2011	734.	SAHANA ROY	2012
735.	VILAS WAHI	2011	736.	BITAPI MANDAL	2012
737.	MOHSIN JAFAR	2011	738.	MANZOOR HUSSAIN	2012
739.	GAUTAM SHARMA	2011	740.	SILIVERU ANJANEYULU	2012
741.	RUSHA S CHATTERJEE	2011	742.	ABHISHEK MOURYA	2012
743.	TANMOY PATRA	2011	744.	MRINAL BHUNIA	2012
745.	ATANU KUILA	2011	746.	PAVAN MANDAPATI	2012
747.	SAGNIK MAJUMDAR	2011	748.	SWATI MENDIRATTA	2012
749.	TAUSEEF AHMAD	2011	750.	B MADHUSUDAN	2012
751.	AMBIKA BHAGI	2011	752.	KUMAR ANAND	2012
753.	SAIKAT CHAKRABORTY	2012	754.	SAMIM SARDAR	2012
755.	TAHAMIDA BANU	2012	756.	BISWAJIT DINDA	2012
757.	NIDHI KATYAL	2012	758.	SUBHENDU KUMAR DAS	2012
759.	RITIKA GAUTAM	2012	760.	NAWSAD ALAM	2012
761.	KISHORE KUMAR GOWRISSETTY	2012	762.	SANJAY KUMAR	2012

M.S.

Master of Science in Chemistry (5-year Integrated Programme)

1975-1981

S. No.	Name of Student	Year			
1.	SHUBHA SAMANT	1979	22.	MANI RAMASWAMI	1984
2.	PARMOD SURI	1979	23.	NEERAJ MATHUR	1984
3.	B.B. SHANKAR	1979			
4.	SHISHIR SINGH	1979			
5.	RAMAN MADHOK	1979			
6.	UTPAL KUMAR GHOSH	1979			
7.	RAJEEV JOHN BERRY	1979			
8.	INDIRA RAU	1980			
9.	INDRANI CHAKRAVARTY	1980			
10.	SHASHI KALA NAIR	1980			
11.	MANJEET KAUR	1980			
12.	G. ASHA DEVI	1980			
13.	M. V. RAMAKRISHNA	1980			
14.	RAJEEV KUMAR TYAGI	1980			
15.	SANJIV SARIN	1980			
16.	ADIGOPALA RAGHU	1980			
17.	RABINDRANATH GOPINATH	1981			



18.	JAIDEV KUNJUR	1981
19.	I.V.S. PRASAD	1981
20.	KRISHNA KUMAR BHARDWAJ	1981
21.	ANJAN RAY	1984



