

Small molecules

Invited Talks

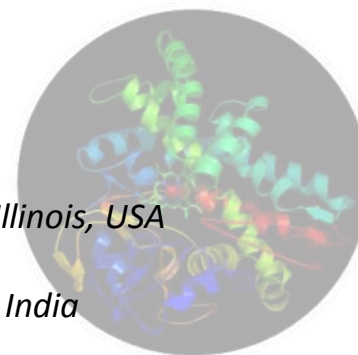
Prof. Martin Gruebele (December 19th),

Department of Chemistry, University of Illinois-Urbana Champaign, Illinois, USA

Prof Rajesh S. Gokhale (December 21st),

CSIR-Institute of Genomics and Integrative Biology, New Delhi, India

Venue: TIFR Lecture Theatre AG-66



proteins

Faculty Research Talks

9:00 am – 1:00 pm (December 19th, 20th, 21st)

Venue: TIFR Lecture Theatre AG-66

Poster Presentations

5:30 pm – 8:30 pm (December 19th)

2:00 pm – 5:00 pm (December 20th)

Venue: Homi Bhabha Auditorium Foyer

Student Presentations

2:00 pm – 3:15 pm (December 21st)

Venue: TIFR Lecture Theatre AG-66

Chem Quiz Contest

2:00-3:30 pm (December 19th)

Venue: TIFR Lecture Theatre AG-66

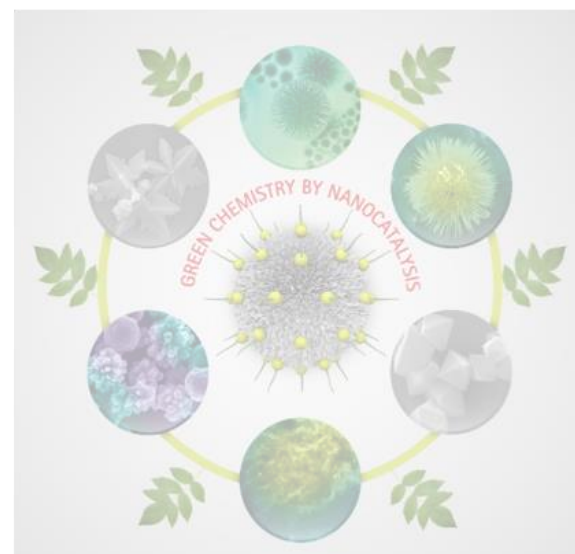
Health



HIMEDIA®



Energy & Environment



Monday December 19

9:00–9:15 am	Inaugural Session (AG-66) Inauguration by Prof. Sandip P. Trivedi, Director, TIFR Introduction by Prof. Shyamalava Mazumdar
Venue: TIFR Lecture Hall (AG-66) Session 1: Coordination Chemistry and Biomolecules (Chair: Samsuzzoha Mondal)	
9:15–9:45 am	Shyamalava Mazumdar <i>Probing the active center in metalloprotein: Synergistic effects between the metal ion and its surroundings</i>
9:45–10:15 am	A. S. R. Koti <i>Mechanical unfolding studies of malarial parasite surface protein and copper-binding azurin</i>
10:15–10:45 am	Ankona Datta <i>Tweaking Molecular Recognition to Visualize Bio-molecules</i>
10:45–11:15 am Tea (West Canteen Terrace)	
Venue: TIFR Lecture Hall (AG-66) Session 2: Emerging Methods in Biomolecular NMR (Chair: Mandar Bopardikar)	
11:15 am–11:45 pm	R. V. Hosur <i>New fronts in NMR methods and applications</i>
11:45 am–12:15 noon	Kaustubh Mote <i>Multiple-acquisition techniques in biomolecular solid-state NMR for fast data acquisition</i>
12:15 noon–12:45 pm	Vipin Agarwal <i>$1H$-$1H$ Distance Restraints in fully protonated proteins at 111 kHz and above MAS frequencies</i>
12:45–2:00 pm Lunch (Guest-house)	
2:00–3:30 pm	Chem Quiz contest
4:00–5:00 pm	Monday Special Colloquium (AG-66) Prof. Martin Gruebele <i>From nanostructures, to proteins, to fish: the time evolution of natural systems</i>
5:00–5:30 pm Colloquium Tea (West Canteen)	
5:30–8:30 pm	Poster Session (Homi Bhabha Auditorium Foyer)

Tuesday December 20

Venue: TIFR Lecture Hall (AG-66)

Session 1: Self Assembly and Stability in Biology (Chair: Mona Gupta)

9:15 am – 9:45 am	Pushpita Ghosh <i>Morphodynamics of growing bacterial colony</i>
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9:45 am – 10:15 am	Sudipta Maiti <i>Amyloid toxicity: searching for mechanisms</i>
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10:15–10:45 am Tea (West Canteen Terrace)

Venue: TIFR Lecture Hall (AG-66)

Session 2: Fundamental Materials Chemistry and Applications (Chair: Nita Ghosh)

10:45 am–11:15 am	Deepa Khushalani <i>Materials Chemistry at TIFR</i>
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11:15 am – 11:45 am	Jyotishman Dasgupta <i>Singlet Fission in Conjugated Organic Materials</i>
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11:45 am–12:15 pm	Vivek Polshettiwar <i>Wrinkled Fibrous Nanosilica (KCC-1): Formation Mechanism by Fractalization of Bicontinuous Microemulsion Droplets and Nanocatalysis with Half Million Turn Over Number.</i>
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12:15 pm – 12:45 pm	Anand B. Puthrath <i>Transparent Flexible Lithium Superionic Conducting Solid Polymer Electrolyte</i>
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12:45 pm – 2:00 pm Lunch (Guest House)

2:00–5:00 pm	Poster Session (Homi Bhabha Auditorium Foyer)
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5:00–5:30 pm Tea (West Canteen Terrace)

5:30–6:30 pm	Special DCS-DNAP Lecture (AG-66) Prof. Lorenz Cederbaum <i>On systems with and without excess energy in environment: ICD and other interatomic mechanisms</i>
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Wednesday December 21

Venue: TIFR Lecture Hall (AG-66)

Session 1: Computational Chemistry: Attacking The Sampling Problem (Chair: Anustup Chakraborty)

9:00–9:30 am	Jagannath Mondal <i>On recognition of a solvent-inaccessible cavity of protein by a ligand : Mechanistic insights from computer simulation</i>
9:30–10:00 am	Ravindra Venkatramani <i>Protein flexibility and dynamics: side chains, sidekicks no more</i>
10:00-10:30 am	Raghunathan Ramakrishnan <i>Machine learning strategies for rapid virtual screening and feature selection in chemical compound space</i>

10:30–11:00 am Tea (West Canteen Terrace)

Venue: TIFR Lecture Hall (AG-66)

Session 2: Chemical Interactions and transformations (Chair: Sanat Ghosh)

11:00 am-11:30 pm	Anukul Jana <i>N-Heterocyclic Carbene Stabilized 2-Hydrophosphasilene: A Heavier Analogue of Alkene</i>
11:30–12:00 noon	Ranjan Das <i>Photophysical quenching and electron spin polarisation</i>
12:00 noon – 12:30 pm	Sanjay Wategaonkar <i>Carbon centred H-bonds: Current Status...</i>

12:30 pm – 2:00 pm Lunch (Guest House)

2:00 pm – 3:15 pm	Student Talks (AG-66) Moderator: Charu Seth 1. <i>Chemistry of Emotions (Sanjoy Paul)</i> 2. <i>Chemistry in Warfare (Anindita Sarkar)</i>
3:15 pm – 3:45pm	Awards Presentations and Closing Remarks (AG-66)
4:00 pm – 5 pm	TIFR Wednesday Colloquium (AG-66) Prof. Rajesh S. Gokhale <i>Demystifying the Vitiligo conundrum</i>

5 pm – 5:30 pm: Colloquium Tea Session (West Canteen)