



DCS – TCIS – NCBS



TIFR Annual Chemistry Conference-2019 (TACC-2019)

October 16-18 2019

**Tata Institute of Fundamental Research
Colaba, Mumbai**



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Guest Lectures

Faculty Research Talks

9:00 am – 12:30 pm (October 16th, 17th, 18th)

Venue: TIFR Lecture Theatre AG-66

Chem Quiz Contest

5:00-7:00 pm (October 17th)

Venue: TIFR Lecture Theatre AG-66

4:00 pm @ TIFR Lecture Theatre AG-66

Poster Presentations

Session 1 2:00 pm – 3:45 pm (October 16th)

Session 2 5:30 pm – 7:15 pm (October 16th)

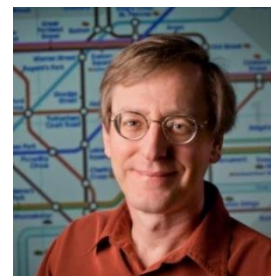
Session 3 2:00 pm – 3:45 pm (October 17th)

Venue: Homi Bhabha Auditorium Foyer

Student Talks

2:00 pm – 3:15 pm (October 18th)

Venue: TIFR Lecture Theatre AG-66



Wed Colloquium

**David N. Beratan
Duke University**



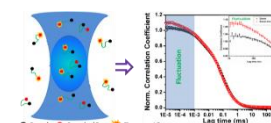
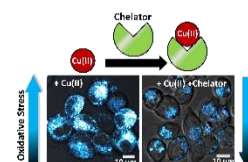
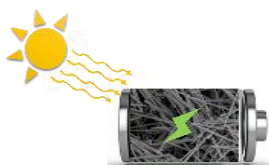
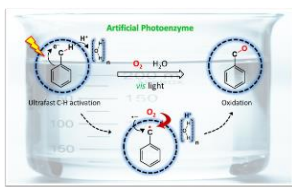
ASET Colloquium

**Steven G. Boxer
Stanford University**

Aahana: The first Ray (Special Lecture)

Prof. V. Chandrasekhar, TIFR-TCIS (4:30 pm, October 17th)

Venue: TIFR Lecture Theatre AG-66





Wednesday October 16

8:30 – 9:00 am	Registration (AG-66)
9:00–9:15 am	Inaugural Session (AG-66)
Venue: TIFR Lecture Hall (AG-66) Session 1: Non-Covalent Interactions and Energy Landscapes (Chair: Debanjana Das)	
9:15-9:45 am	Sanjay Wategaonkar <i>Non-covalent intermolecular interactions involving Carbon and Sulfur atoms</i>
9:45–10:15 am	Shachi Gosavi <i>Folding, frustration and function</i>
10:15-10:45 am	A. S. R. Koti <i>Folding-unfolding of single-domain proteins and importance of salt-bridges in ubiquitin family proteins</i>
10:45–11:15 am Tea (West Canteen Terrace)	
Venue: TIFR Lecture Hall (AG-66) Session 2: Synthesis and Catalysis (Chair: Rishi Verma)	
11:15 am–11:45 pm	Anukul Jana <i>Convenient Access to Carbocations: A Synthron for Carbon Based Radicals</i>
11:45 am–12:15 noon	Vivek Polshettiwar <i>CO₂ to Fuel by using nanocatalysis</i>
12:15 noon – 12:45 pm	V. Chandrasekhar <i>Molecular Magnets: From Serendipity to Designs</i>
12:45–2:00 pm Lunch (Homi Bhabha Auditorium Terrace)	
2:00–3:45 pm	Poster Session-1 (Homi Bhabha Auditorium Foyer)
4:00 – 5:00 pm	TIFR Wednesday Colloquium (AG-66) Prof. David N. Beratan <i>Electron transport mechanisms in biology</i>
5:00–5:30 pm Colloquium Tea (West Canteen)	
5:30–7:15 pm	Poster Session-2 (Homi Bhabha Auditorium Foyer)



Thursday October 17

Venue: TIFR Lecture Hall (AG-66)

Session 1: Sensors and Probes (Chair: Amitava Chandra)

9:00 am – 9:30 am	Akash Gulyani <i>Natural and engineered biological sensors</i>
9:30 am – 10:00 am	Ankona Datta <i>Reversible Chemical Probes for In Vivo Molecular Tracking</i>
10:00 am –10:30 am	Arati Ramesh <i>Iron-sensing by RNAs: lessons from the sensei.</i>

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

Venue: TIFR Lecture Hall (AG-66)

Session 2: Molecular Biophysics and Therapeutics (Chair: Anirban Das)

11:00 am–11:30 am	Sudipta Maiti <i>Small molecule interaction: a new pathway for chemical neurotransmission?</i>
11:30 am –12:00 noon	Malay Patra <i>The search for a novel class of metal-based anticancer drugs</i>
12:00 noon – 12:30 pm	Jagannath Mondal <i>Protein-Ligand Interactions</i>

12:30 pm – 2:00 pm Lunch (Homi Bhabha Auditorium Terrace)

2:00 pm –3:45 pm	Poster Session-3 (Homi Bhabha Auditorium Foyer)
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4:00–4:30 pm Tea (West Canteen Terrace)

4:30 – 5:00 pm	V. Chandrasekhar <i>Aahana: The First Ray</i>
5:00–7:00 pm	Chem Quiz contest (Organizers: Shubhangi, Rishi, Pulkit, Smitaroopa, Dipin, Aditya)
7:30 pm	Conference Dinner (Ramanujan Guest House)



Friday October 18

Venue: TIFR Lecture Hall (AG-66) New Molecules and Materials (Chair: Rohit)

9:30 am – 10:00 am	Raghunathan Ramakrishnan <i>Data-driven discoveries in chemical compound space: Trends and Challenges</i>
10:00 am – 10:30 am	Deepa Khushalani <i>New materials for Energy Storage</i>

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

Venue: TIFR Lecture Hall (AG-66) Session 2: Photoinduced Processes in Molecules (Chair: Arup Kundu)

11:00 am-11:30 pm	Vamsee Voora <i>A partitioning scheme for ionization potentials based on random phase approximation</i>
11:30–12:00 noon	Jyotishman Dasgupta <i>Probing Singlet Fission in Organic Chromophores</i>
12:00 noon – 12:30 pm	Ravi Venkatramani <i>Photoinduced Electron Transfer Processes in Proteins</i>

12:30 pm – 2:00 pm Lunch (Homi Bhabha Auditorium Terrace)

2:00 pm – 3:15 pm	Student Talks (AG-66) 1. <i>Music and Molecules/Chemistry (Ayan Maity)</i> 2. <i>Chemistry off/for/in Space (Vicky and Ankur Gupta)</i>
3:30 pm – 3:45pm	Awards Presentations and Closing Remarks (AG-66)
4:00 pm – 5 pm	TIFR ASET Colloquium (AG-66) Prof. Steven G. Boxer <i>Electric Fields and Enzyme Catalysis</i>

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