



Department of Chemical Sciences
Annual Talks 2017
(November 28-30)



Invited Talks

*Prof. Thomas Pucadyil (November 29th),
Indian Institute of Science Education and Research (IISER), Pune, India*

*Prof. Debabrata Maiti (November 30th),
Indian Institute of Technology (IIT-Bombay), Mumbai, India*

Venue: TIFR Lecture Theatre AG-66

Faculty Research Talks

9:00 am – 1:00 pm (November 28th, 29th, 30th)

Venue: TIFR Lecture Theatre AG-66

Poster Presentations

5:00 pm – 8:00 pm (November 28th)

2:15 pm – 3:45 pm & 5:30 pm – 7:00 pm (November 29th)

Venue: Homi Bhabha Auditorium Foyer

Chem Quiz Contest

2:00-3:30 pm (November 28th)

Venue: TIFR Lecture Theatre AG-66

Chemchat Recharge

3:30-4:30 pm (November 28th)

Venue: TIFR Lecture Theatre AG-66

Student Presentations

2:15 pm – 3:30 pm (November 30th)

Venue: TIFR Lecture Theatre AG-66

Tuesday November 28

9:00–9:15 am	<p>Inaugural Session (AG-66) Prof. H. M. Antia, Dean-NSF, TIFR Prof. Shyamalava Mazumdar, Chair, DCS Prof. V. Chandrasekhar, Centre Director, TIFR-TCIS, Hyderabad</p>
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Venue: TIFR Lecture Hall (AG-66)

Session 1: Designer Molecules and Materials (Chair: Ananya Rakshit)

9:15–9:45 am	<p>Raghunathan Ramakrishnan <i>MolDis: A data-mining platform for molecular discovery</i></p>
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9:45–10:15 am	<p>Kalyaneshwar Mandal <i>Designing non-natural proteins to inhibit interactions between natural proteins</i></p>
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10:15-10:45 am	<p>Ankona Datta <i>Tuning chemical probes to the biological buffer</i></p>
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10:45–11:15 am Tea (West Canteen Terrace)

Venue: TIFR Lecture Hall (AG-66)

Session 2: NMR Applications in Biology and Materials Characterization (Chair: Rustam Singh)

11:15 am–11:45 pm	<p>Shachi Gosavi <i>Understanding HDX-NMR data using protein simulations</i></p>
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11:45 am–12:15 noon	<p>Kaustubh R. Mote <i>Towards the study of secondary active transport across biological membranes</i></p>
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12:15 noon–12:45 pm	<p>Vivek Polshettiwar <i>Insights into the nanocatalyst morphology</i></p>
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12:45–2:00 pm Lunch (Homi Bhabha Auditorium Terrace)

2:00–3:30 pm	<p>Chem Quiz contest (organizers: Anustup, Sanjoy, Barun, Rajashree, Kaustav, Souvik)</p>
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3:30–4:30 pm	<p>Chem Chat Recharge (organizers: Vicky, Tathagata, Kaustav)</p>
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4:30–5:00 pm Tea (Homi Bhabha Auditorium Terrace)

5:00–8:00 pm	<p>Poster Session (Homi Bhabha Auditorium Foyer)</p>
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Wednesday November 29

Venue: TIFR Lecture Hall (AG-66)

Session 1: Coordination Chemistry (Chair: Abhijit Mondal)

9:00 am – 9:30 am	Anukul Jana <i>Coordination chemistry of molecular mono- and dicoordinated germanium</i>
9:30 am – 10:00 am	Shyamalava Mazumdar <i>Copper binding to peptide ligands</i>
10:00 am – 10:30 am	V. Chandrasekhar <i>Molecular magnets: modulating the nuclearity in lanthanide complexes</i>

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

Venue: TIFR Lecture Hall (AG-66)

Session 2: Non-Covalent Interactions and Spectroscopy (Chair: Shrabasti Bhattacharya)

11:00 am–11:30 am	A. S. R. Koti <i>Stability, folding and unfolding of SUMO proteins</i>
11:30 am – 12:00 noon	Sanjay Wategaonkar <i>Non-covalent intermolecular interactions</i>
12:00 noon – 12:30 pm	Sudipta Maiti <i>Matchmaking for disordered proteins using spontaneous fluctuations as a guide</i>
12:30 pm – 1:00 pm	Pranav R. Shirhatti <i>Adsorption and desorption of vibrationally excited molecules from a metal surface: Implications for surface chemistry</i>

1:00 pm – 2:15 pm Lunch (Homi Bhabha Auditorium Terrace)

2:15 pm – 3:45 pm **Poster Session (Homi Bhabha Auditorium Foyer)**

4:00 pm – 5:00 pm **TIFR Wednesday Colloquium (AG-66)**
Prof. Thomas Pucadyil
Membrane fission: diverse players, convergent mechanisms

5:00–5:30 pm Colloquium Tea (West Canteen)

5:30–7:00 pm **Poster Session (Homi Bhabha Auditorium Foyer)**

Thursday November 30

Venue: TIFR Lecture Hall (AG-66) Session 1: Biomolecular Interactions and Dynamics (Chair: Barun Kumar Maity)

8:30 am – 9:00 am	Angana Ray <i>Atomistic insights into structural differences between apoE3 and apoE4 isoforms</i>
9:00 am – 9:30 am	R V Hosur <i>Biomolecular NMR techniques</i>
9:30 am – 10:00 am	Kanchan Garai <i>Role of chaperones in amyloid aggregation</i>
10:00 am – 10:30 am	Monika Vig <i>High affinity interactions governing the optimal assembly and selectivity of CRAC channels</i>

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

Venue: TIFR Lecture Hall (AG-66) Session 2: Photons and Electrons (Chair: Ankita Das)

11:00 am-11:-30 pm	Deepa Khushalani <i>Endeavoring to capturing and storing sun's energy in one step</i>
11:30–12:00 noon	Ravi Venkatramani <i>A new optical window of charge transfer transitions to probe biomolecules</i>
12:00 noon – 12:30 pm	Ranjan Das <i>Dynamics of photophysical quenching of excited states by free radical</i>
12:30 pm – 1:00 pm	Jyotishman Dasgupta <i>C-H bond oxidation by light, water and O₂</i>

1:00 pm – 2:15 pm Lunch (Homi Bhabha Auditorium Terrace)

2:15 pm – 3:30 pm	Student Talks (AG-66) 1. <i>Chemistry of Dreams and Circadian Rythyms (Mona Gupta and Charu Seth)</i> 2. <i>Chemistry in Sports (Amitava Chandra and Imon Mandal)</i>
3:30 pm – 3:45pm	Awards Presentations and Closing Remarks by Prof. Sanjay Wategaonkar, Chair-ACCC, TIFR (AG-66)
4:00 pm – 5 pm	TIFR ASET Colloquium (AG-66) Prof. Debabrata Maiti <i>Designing of templates to reach the distal C-H bond</i>

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