



## DCS Day '24

On 22 February (Thursday) 2024

Venue: R N Tagore Auditorium, IISER Kolkata

### Programme Schedule

	9.30 - 9.40 am	Inaugural session	DCS Chair and the Director
<b>Session 1</b>  <b>Chair:</b>  <b>Dr. Sonia Agrawal</b>	9.40 - 10.00 am	L1: Dr. Mainak Sadhukhan IIT Kanpur	One equation to rule them all and how to find it?
	10.00 - 10.15 am	L2: Samrat Mallick IISER Kolkata	Divergent electrochemical synthesis of indoles through pKa regulation of amides: synthetic and mechanistic insights
	10.15 - 10.30 am	L3: Kakoli Maji IISER Kolkata	Cobalt catalysed enantioselective reductive coupling of imines and internal alkynes
	10.30 - 10.45 am	L4: Ganesh Karan IIT KGP	Allyl boronic acid as a versatile allylating agent towards ketone and imines: Application to indole alkaloids
	10.45 - 11.15 am: Tea Break		
<b>Session 2</b>  <b>Chair:</b>  <b>Dr. Noufal Kandoth</b>	11.15 - 11.30 am	L5: Sudip Baguli IISER Kolkata	Picolyl-tethered cyclic(alkyl)(amino)carbenes (CAACs): A journey that surprises at every step
	11.30 - 11.45 am	L6: Satyadip Paul IISER Kolkata	Covalent organic frameworks for the purification of recombinant enzymes and heterogeneous biocatalysis
	11.45 - 12.00 noon	L7: Soumen Mukherjee IISER Kolkata	Ultrafast dynamics and single particle spectroscopy of super-bright Zn-alloyed CsPbI <sub>3</sub> perovskite nanocrystal
	12.00 - 12.15 pm	L8: Payel Khanra IACS Kolkata	Controlled/ living supramolecular polymerization $\pi$ -conjugated systems
	12.15 - 12.30 pm	L9: Shamim Ahmad IISER Kolkata	Phase transitions in plastic crystals: study of nanomechanical and optical properties
	12.30 - 12.45 pm: DCS Group Photo Session		
	12.45 - 2.30 pm: Lunch		

<b>Session 3</b>  <b>Chair:</b>  <b>Dr. Karina Khan</b>	2.30 - 2.45 pm	L10: Sandip Sarkar IISER Kolkata	Host-guest adduct as a prodrug for enzyme-triggered peptide self-assembly in mitochondria to induce cell apoptosis
	2.45 - 3.00 pm	L11: Nikesh Dewangan IISER Kolkata	Design of a dual inhibitor to limit the entrance of SARS CoV-2
	3.00 - 3.15 pm	L12: Palash Jana IISER Kolkata	Highly selective and quantitative point-of-care diagnostic method for adrenaline
	3.15 - 3.30 pm	L13: Sakira T Borah IISER Kolkata	Dinuclear Ir-Pt complexes: Microenvironment sensitive bacterial imaging
	3.30 - 3.45 pm	L14: Krishnendu Sinha SNBNCBS Kolkata	Importance of metastable conformational states in proteins: from function to drug discovery
<b>3.45 - 5.00 pm: Tea Break + Poster Session</b>			
<b>Session 4</b>  <b>Chair:</b>  <b>Dr. Ankita Kolay</b>	5.00 - 5.15 pm	L15: Amrita Chakraborty IISER Kolkata	Dynamic allostery of RNA affecting protein binding affinity
	5.15 - 5.30 pm	L16: T. Pooventhiran IISER Kolkata	Computational approaches towards mechanistic investigation of Chan-Evans-Lam Etherification reaction
	5.30 - 5.45 pm	L17: Santanu Mondal IISER Kolkata	Two-electron harmonic quantum dot: Structural properties and quantum entanglement measures
	5.45 - 6.00 pm	L18: Sandip Ghosh IISER Kolkata	Control of electron localization and probability modulation in molecular photodissociation by one and two-colour intense laser pulses
<b>6.00 - 6.15 pm: Concluding remarks</b>			
<b>7.30 pm: Dinner</b>			