

## 5<sup>th</sup> NCL-RF Annual Students' Conference 2023

30<sup>th</sup> November & 1<sup>st</sup> December, 2023

### Conference Schedule

#### Day 1- 30/11/2023, Thursday

Time	Speaker	Event
8:30 – 09:30	Registration and Breakfast	
09:30 – 09:35	Ms. Rajalaxmi B	Welcome remarks
09:35 – 09:40	Mr. Swapnil Halnor	Inauguration of the conference
09:40 – 09:55	Dr. Chetan Gadgil	Inaugural Talk
09:55 – 10:00	Dr. C P Vinod	Introduction to Plenary talk
10:00 - 11:00	Dr. Vikram Vishal	Plenary talk: <i>Can Carbon Capture and Storage in India Accelerate the Efforts Toward Net-Zero Emissions?</i>
11:00 – 12:00	Dr. Chetan Gadgil	Panel Discussion: “Life of An Academician.”
12:00 – 13:00	Mr. Ajinkya	3MT
13:00 – 14:30	Lunch Break	
14:30 – 16:00	Conference Proceedings: Oral Session 1 & 2 (PSED, BIOD) Poster Session 1 (OCD)	
16:00 – 16:20	High Tea	
16:20 – 18:00	Conference Proceedings: Oral Session 2 (continues) (BIOD) Poster Session 2 (CICD)	
18:00 – 18:30	High Tea	
19:15 – 20:30	<i>SPIC MACAY (Indian classical music)</i>	

End of Day- 1

#### Day 2- 01/12/2023, Friday

Time	Speaker	Title
08:30 - 09:30	Breakfast	
09:30 - 11:00	Conference proceedings: Oral session 3 (CICD) Poster session 3 (PMCD)	
11:00 - 12:00	Dr. C S Unnikrishnan	Plenary talk: <i>Cosmic Relativity: The Gravitational Universe as the True Basis of Dynamics and Relativity.</i>
12:00 - 13:00	Conference proceedings: Oral session 4 (CEPD) Poster session 4 (PSED)	
13:00 - 14:30	Lunch Break	
14:30 - 15:50	Conference proceedings: Oral session 5 (PMCD) Poster session 5 (BIOD)	
15:50 – 16:10	Tea Break	
16:10 – 18:00	Conference proceedings: Oral session 6 (OCD) Poster session 6 (CEPD and Hindi)	
18:00 - 18:30	Prize distribution ceremony	
18:30 - 18:40	Ms. Shikha Thakur	Vote of thanks

End of Day-2

## Conference Proceedings Oral Session 1 (PSED)

*Session Chair: Ms. Pooja Nehra*

Time slot	Speaker	Title
14:30- 14:40	Shibam Pal	Biocompatible PVAc-g-PLLA Resin Formulations with tunable mechanical properties for DLP/SLA 3D Printing
14:40- 14:50	Kishor Vilas Khopade	Metal-Catalyzed Dehydrogenation, Depolymerization and Upcycling of Polyethylene to Value Added Chemicals

## Session change (OTHERS + BIOD)

*Session Chair: Mr. Viksit Kumar*

15:00 - 15:10	Khalida Bloch	Nanoremediation of Environmental Pollutants Using Phytogetic Silver Doped Zinc Oxide Particles
15:10 - 15:20	Mohd. Aadam Bin Najeeb	Sequencing of the SARS-CoV-2 genome using the Oxford Nanopore
15:20 - 15:30	Mandar Anil Karkhanis	Establishing correlation between antimicrobial profile and the phylogenetic grouping of uropathogenic Escherichia coli (UPEC)
15:30 - 15:40	Muskan Jain	Effects of Dengue Serotypes on the Apoptosis of In-vitro Cultured THP-1 Monocytes
15:40 - 15:50	Varsha Arun Mahadik	RNA mediated strategy to control Fusarium wilt of tomato
15:50 - 16:00	Rosaleen Sahoo	Discovering Biofungicides to Control Fusarium Wilt of Chickpea
16:20 - 16:30	Ashish Jagtap	Sustainable process for Bacterial Nanocellulose production using cost effective wooden disc based Rotary reactor
16:30 - 16:40	Neeraj Kailash Gaur	Data assisted training of machine learning classifiers to aid in virtual screening and efficient design of mini-protein therapeutics
16:40 - 16:50	Komal Sanjay Timane	Revolutionizing Synthetic Biology: Unraveling Transport Mechanisms for Enhanced Enzyme Activity Through Encapsulation in Bacterial Microcompartments
16:50 - 17:00	Rachel Samson.P	Spatio-temporal variation of the microbiome and resistome repertoire along an anthropogenically dynamic segment of the Ganges River, India
17:00 - 17:10	Abhilasha Atul Doke	Electrostatics choreograph the intriguing ballet of TDP-43 aggregation dynamics
17:10 - 17:20	Swaraj Manik Jathar	Development of a novel Glycation Resistant Insulin for Diabetic Therapy
17:20 - 17:30	Minal Bhalerao	Exploring the potential of bacterial microcompartment of Salmonella as a therapeutic target

### Conference Proceedings oral session 3 (CICD)

Session chair: Mr. Bharathkumar H J

Time Slot	Speaker	Title
09:30 - 09:40	Kajal Balayan	On the competition between six-membered and five-membered NHC towards alane centered ring expansion and synthesis of six-membered N-heterocyclic imines
09:40 - 09:50	Priya Lokhande	Furoic Frontiers: Unleashing the Power of Ru Catalysts in Aqueous Aerobic Oxidation for the Synthesis of 2-Furoic Acid from Furfural
09:50 - 10:00	Kranti Salagaonkar	A Baby-Step in Assembling and Integrating Components of Artificial Photosynthesis Device with Forced Heterojunctions Towards Improved Efficiency
10:00 - 10:10	Kritika Gour	Bis-Silyl Substituted Perimidine Scaffold for Silicon and Germanium Complexes tuberculosis Using A Derivative Of 1,2,4-Triazolethiol
10:10 - 10:20	Arindam Saha	Fabrication of a bifunctional electrode to generate green hydrogen whilst selectively oxidizing glycerol to formic acid
10:20 - 10:30	RSC interactive session	

### Conference Proceedings oral session 4 (CEPD)

Session chair: Mr. Pawan Kumar

Time Slot	Speaker	Title
12:00 - 12:10	Sukhada Bhure	Spherical tracer induced clogging behavior of aspherical particles in a silo
12:10 - 12:20	Vivek Karma	The Effect of Solid Boundary on Streaming Patterns Around an Acoustically Excited Single Air Bubble in Water
12:20 - 12:30	Muzammilanwar Sarfaraz Khan	Dynamics of Drop Formation in the Presence of Interfacial Mass Transfer
12:30 - 12:40	Jayateerth S. Bhavikatti	Genome-scale metabolic modelling reveals potential drug targets against Nipah virus (NiV) infection

### Conference Proceedings oral session 5 (PMCD)

Session chair: Ms. Megha

Time Slot	Speaker	Title
14:30 - 14:40	Neha Vishwas Dambhare	High Open-Circuit Voltage in Lead Sulfide Quantum Dot Solar Cells via Solution-Phase Ligand Exchange with Low Electron Affinity Cadmium Halides
14:40 - 14:50	Rachana Dilipkumarji Bamb	Fractal-like kinetic approach for quantifying dye diffusion in Agar gel media
14:50 - 15:00	Maria Kurian	Synergistic Enhancement of Oxygen Electrochemistry in F-Doped Nickel Cobalt Oxide Heteroatom Doped Mesoporous Carbon

		Composite for Advanced Rechargeable ZincAir Batteries
15:00 - 15:10	Manoj Krishnat Patil	Selective Conversion of Glucose to Glycols by Ru/W18O49 Hierarchical Coral-like Nanocomposites.
15:10 - 15:20	Ajmal P	3D-Structured Carbon Induced Triple Phase Boundary Tuning and Enhanced Water Management for High Performance PEMFC
15:20 - 15:30	Sorabh Bamen	Synthesis of carbon nano tube (CNT) and its application as an energy storage device
15:30 - 15:40	Habibul Arfin	Bi <sup>3+</sup> Sensitized SWIR Emission from Er <sup>3+</sup> /Yb <sup>3+</sup> Doped Cs <sub>2</sub> AgInCl <sub>6</sub> Halide Double Perovskite

### Conference Proceedings oral session 6 (OCD)

*Session chair: Ms. Deepti*

Time Slot	Speaker	Title
16:10 - 16:20	Anand B. Shabade	Chemoselective Hydrogenation of $\alpha,\beta$ -Epoxy Ketones to $\alpha$ -Hydroxy Epoxides by a Well-Defined Manganese Catalyst
16:20 - 16:30	Nilu Vijay Gone	Ciprofloxacin-Niclosamide Hybrids as Novel Autophagic-type Anticancer Agents
16:30 - 16:40	Pawan Kumar	Radical Cascade Cyclization of Unactivated Alkene-Tethered Indoles with Aryldiazonium Salt and Sodium Metabisulfite to Access Azo and Sulfonylated-2,3 Dihydro-1H-pyrrolo[1,2-a]indoles
16:40 - 16:50	Vasavi	Synthesis, Characterization and Photophysical Studies of (E)-3-(2-Hydroxyphenyl)-1-(4-hydroxyphenyl) prop-2-en-1-one
16:50 - 17:00	Amit Vinayak Gavit	Aryl borane as a new emerging catalyst for amide synthesis
17:00 - 17:10	Viksit Kumar	Isomer Effect on Energy Storage of $\pi$ -Extended S-Shaped Double[6]Heterohelicene
17:10 - 17:20	Sameer R. Sonavane	Organophotoredox-Catalyzed Decarboxylative C-X Bond Formation: Facile Access to Ampikin APIs and Deoxyvasicinone Quinazolinone Alkaloids
17:20 - 17:30	Archana Rai	Accessing meta-Enone Substituted Anisoles using Arene Diazonium Salts as Catalyst via Rearrangement of Alkyne-Tethered Cyclohexadienones
17:30 - 17:40	Vishal Mallikarjun Zade	Direct Deoxygenation of $\alpha$ -hydroxy and $\alpha,\beta$ -dihydroxy Ketones Using Silyl Lithium Reagent
17:40 - 17:50	Sangram D. Dongre	Amplifying Dissymmetry Factor and Quantum Yield by Inducing Helical Chirality on [7]-Helicene