

6th NCL-RF Annual Student's Conference 2024

28th & 29th November, 2024

Conference Schedule

Day 1- 28/11/2024, Thursday

Time	Speaker	Event
08:30 – 09:30	Registration and Breakfast	
09:30 – 09:40	Ajinkya and Poonam	Welcome Remarks
09:40 – 09:50	Ajinkya	Inauguration of the Conference and Curtain Raiser program for the IISF
09:50 – 10:00	Dr. Premnath Venugopalan	Inaugural Remarks Introduction to Plenary speaker
10:00 - 11:00	Prof. Shantanu Chaudhary	Plenary talk: “ <i>Advancing Materials Designs and Scale up using Physics-Informed AI</i> ”
11:00 – 12:00	Ajinkya and Poonam (Session moderator – Miss. Soma Chattopadhyaya)	Panel Discussion: “ <i>From Lab to Launch: Turning Research into Real-world solutions</i> ”
12:00 – 13:30	Ameya Pawar	End of Curtain Raiser program for IISF followed by Conference proceedings: Flash Talk
13:30 – 14:30	Lunch Break	
14:30 – 16:00	Conference Proceedings: Oral Session 1 Poster Session	
16:00 – 16:20	High Tea	
16:20 – 17:30	Conference Proceedings: Oral Session 2 and 3 Poster Session	
17:30 – 18:00	Tea Break	
19:15 – 20:30	SPIC MACAY (<i>Maestro Dr. Pt. Ajay Pohankar</i>)	

End of Day- 1

Day 2- 29/11/2024, Friday

Time	Speaker	Title
08:30 - 09:30	Breakfast	
09:30 - 10:30	Conference proceedings: Flash Talk	
10:30 - 11:30	Dr. Namrata Gundiah	Plenary talk: “ <i>Hemodynamics and the Endothelium: From Health to Disease</i> ”
11:30 - 13:30	Conference proceedings: Oral Session 4 and 5 Poster session	
13:30 - 14:30	Lunch Break	
14:30 - 16:00	Conference proceedings: Oral session 5 (continues) Poster session	
16:00 - 16:20	Tea Break	
16:20 - 17:30	Valedictory ceremony and Vote of Thanks	

End of Conference

Conference Proceedings

Oral Session 1(Energy and Circular Economy)

Session Chair- Poonam Gupta

Time slot	Speaker	Title
14:30- 14:40	Anoushka K Das (O1)	Enhancing the redox reactions in lithium – sulfur batteries using catalytic zinc phosphide interface between separator and cathode
14:40- 14:50	Athira S Babu (O2)	Interlayer space engineering-induced pseudocapacitive Zinc-ion storage in holey graphene oxide-bearing vertically oriented MoS ₂ nano-wall array cathode for rechargeable Zn-metal batteriesaqueous
14:50- 15:00	Priyanka P P (O3)	Cathode electrolyte interface engineering by a hydrogel polymer electrolyte for a 3d porous high-voltage cathode material in a quasi-solid-state zinc metal battery by in situ polymerization
15:00- 15:10	Oshnik Maurya (O4)	Designing Bi ₂ (S,Se) ³⁻ TiO ₂ Nanotube Heterojunctions for Improved PEC Water Oxidation under Visible Light"
15:10- 15:20	Jesna Silby (O5)	Design and Synthesis of Homodimeric Squaraine Dyes for Dye-Sensitized Solar Cells
15:20- 15:30	Pooja (O6)	Pd-Loaded Layered Double Hydroxides as Efficient Catalysts for CO ₂ Hydrogenation to Formic Acid: A Focus on Surface Hydroxyls
15:30- 15:40	Siddharth Barik (O7)	
15:40- 15:50	Animesh Gopal (O8)	Microstructure and Mechanical Properties of Recycled Polyolefin Blends for Additive Manufacturing

Conference Proceedings

Oral Session 2(Healthcare, Medicine and Nutraceuticals)

Session Chair- Ajinkya

16:20- 16:30	Manali Bajpai (O9)	Surveillance of Lumpy Skin Disease Virus (LSDV) and variant characterisation fromdairy cattle in India
16:30- 16:40	Sonal Rajendra More (O10)	Site-specific solvation dynamics and conformational changes during misfolding and aggregation of nucleic-acid binding domain of TDP- 43
16:40- 16:50	Tazeen Qureshi (O11)	Histone Deacetylase 6 Promotes Cytoskeletal Regulation in Neuronal Cells

Conference Proceedings

Oral Session 3(Environment Management and Biomass Conversion)

Session Chair- Ajinkya

16:50- 17:00	Nivedhitha T R (O12)	Aqueous Glycerol to Glyceric acid and Green Hydrogen by Visible Light Driven Photocatalysis with Ni/Co(PO ₄) ₂ -TiO ₂ : Parallel Utilization of Holes and Electrons
17:00- 17:10	Vanashree V. Sahasrabudhe (O13)	Solubilization of Sugarcane Bagasse using Sodium carbonate Solution
17:10- 17:20	Neelaambhigai Mayilswamy (O14)	Genetic Algorithm Optimization-assisted Artificial Neural Network Modelling of Rhodamine-B uptake using pristine, and NaOH-activated mesoporous sewage sludge biochars
17:20- 17:30	Twinkle Gorai (O15)	A binary approach towards sustainable environment via atmospheric CO ₂ utilization into styrene carbonate: a protective layer material over anode for a highly durable aqueous Zn-ion battery

Conference Proceedings

Oral Session 4(Process Development, Synthesis and Methodology)

Session Chair-Twinkle

11:30-11:40	Archana Rai (O16)	Palladium (II)-Catalyzed Desymmetrization of 2-Alkynylbenzoate Tethered Cyclohexadienones for the Synthesis of Polycyclic Com-pounds
11:40-11:50	Thanasekar C (O17)	Soluble Graphene Nanoribbons with Tunable Bandgap
11:50- 12:00	Vishal Mallikarjun Zade (O18)	Synthesis of Benzofuran-6-carboxylic Acid, an Intermediate of Lifitegrast with Low-Carbon Footprints
12:00- 12:10	Aarthika M (O19)	Asymmetric C-H Hydroxyalkylation of Azaarenes
12:10- 12:20	Subhranshu Shekhar Sahu (O20)	A Toolbox Approach for the Unified Total Synthesis of Furan Natural Products Using Bi(III) Catalysis
12:20- 12:30	Abhijit Ramchandra patil (O21)	Integrating 3,4-Dihydro-2H-1,4-Oxazine into Peptides as a Modification: Silver Triflate Catalyzed Cyclization of N-Propargyl N-Sulfonyl Amino Alcohols for SPPS Applications
12:30- 12:40	Pooja Rajesh Mahajan (O22)	Heterologous expression of pigment biosynthetic pathway in E.coli
12:40- 12:50	Amit Gavit (O23)	Borane Catalyzed Amidation Protocol For Amide Synthesis
12:50- 13:00	Ritik (O24)	Study of changes in the morphological properties using SEM technique in the cross-linked thermoset resin to pH conditions in the presence of Cleavable

		Bonds.
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Conference Proceedings

Oral Session 5(Theoretical and Fundamental Science)

Session Chair- Poonam

13:00-13:10	Soumya Ranjan Das (O25)	Going where Experimentalists Fear to Tread: Computational Chemistry to the Rescue in Understanding XeO ₃ Chemistry
13:10-13:20	Sajid Saikia (O26)	Ultrabroad Near Infrared Emitting Halide Perovskites.
13:20-13:30	Yugal Rathod (O27)	Probing Plasmons in MXenes using XPS
14:30- 14:40	Kajal (O28)	Combining NHCs with diazoalkane: C-H activation, C=C bond formation, and access to N-heterocyclic methylenehydrazine
14:40- 14:50	Anirudh Murali (O29)	Mechanotransduction and gene expression in microgravity: an integrated MechSigFlow pipeline for bio-fluid dynamics and T-cell signaling
14:50- 15:00	Sanket Kumawat (O30)	Exploring Static and Dynamic Length Scales in Binary Kob-Andersen Glassy Mixture
15:00- 15:10	Kavita Thakkar (O31)	Unlocking the Potential of Mg-Cu Catalysts towards CO ₂ Activation: A DFT Investigation
15:10- 15:20	Vishal kumar sharma (O32)	Magnesium-ligand cooperation in O-H and C-H bond cleavage of water, alkyne and diazoalkane
15:20- 15:30	Ashwini Verma (O33)	MH-PCTpro: A Machine learning model for rapid prediction of Pressure-Composition-Temperature (PCT) isotherms
15:30- 15:40	Shivshankar Kore (O34)	Solvation structure and dynamics of a small ion in an organic electrolyte
15:40- 15:50	Meema Bhati (O35)	Lowering the C-H bond activation barrier of methane by means of SAC@Cu(111): periodic DFT investigations

Conference Proceedings Poster and Flash talk sequence

Session Chair- Ameya Pawar

Session 1(Food and Agriculture Technology)

12:00 -12:10	Srinidhi Kulkarni (P1)
	Karunambika C Arakeri (P2)
	Satarupa Sil (P3)
	Akshay Vyawahare (P4)
	Sakshi. M. Kiran (P5)

Session 2 (Process Development, Synthesis and Methodology)

	Pooja K. Bagad (P6)
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12:10-12:35	Ms. Pooja D Parit (P7)
	Sanjivani Bamane (P8)
12:10-12:35	Shailendra Singh Choudhary (P9)
	Subhadip Mishra (P10)
	Shreya S A (P11)
	Prakruthi S (P12)
	Pragati Sahu (P13)
	Uday Bhatkande (P14)
	Akshay Gawande (P15)
	Gangadhar Hattale (P16)
	Manas Ranjan Sahu (P17)
	Darshana Patil (P18)
	Pranali Wankhede (P19)
	Maulali Haidar Shaikh (P20)
	Rutuja Kadam (P21)
	Dwijayu Arjun Wankhede (P22)
	Kamble Buddhahushan (P23)
	Bela Mishal (P24)
	Niyati Saxena (P25)
	Rahul Kumar Singh (P26)
Devendra Kumar Dewangan (P27)	
Sumedh Kulkarni (P28)	

Session 3 (Theoretical and Fundamental Science)

12:35-12:45	Piyush Ranjan Maharana (P29)
	Pratiksha B. Ghanwat (P30)
	Akhil Pathania (P31)
	Sayali Chaudhary (P32)
	Mudita Shukla (P33)
	Poulami Sadhukhan (P34)

Conference Proceedings Poster and Flash talk sequence

Session Chair- Ameya Pawar

Session 4(Energy and Circular Economy)

09:30 – 09:45	Animesh Ghosh (P35)
	Athira Yoyakki (P36)
	Harshada Mahadev Mule (P37)
	Yogesh Kumar (P38)
	Ganeshdev Padhi (P39)
	Maria Kurian (P40)
	Revati Dokhe (P41)
	Samata Panjabrao Morey (P42)
	Debjit Pramanik (P43)
	Chaitanya Dattatray Galave (P44)
	Nageswararao Moyilla (P45)
	Purnima Rawat (P46)
	Ashlin J. Varghese (P47)

Session 5(Healthcare, Medicines and Nutraceuticals)

09:45 - 10:00	Sharmin Kika (P48)
	Aishwarya Gadade (P49)
	Shubham Kumar (P50)
	Debjani Baidya (P51)
	Vinod Kamble (P52)
	Ankita Namdeo (P53)
	Arwa Zakir (P54)
	Jinelle Menezes (P55)
	Amrutha K (P56)
	Vaibhav Varpe (P57)
	Sai Prashant Joshi (P58)
	Rinka Sanatan Pramanik (P59)
	Bhagya Turakani (P60)
	Srusti R. Shirolkar (P61)
	Tisha dinesh kawad (P62)
Mona Sunil Kirmire (P63)	
Anjali Divakar Patil (P64)	

Session 6(Environment Management and Biomass Conversion)

10:00-10:10	Anusree E A (P65)
	Amrapali Sakpal (P66)
	Vishnumaya K J (P67)
	Mr. Yashesh Rathwa (P68)
	Dr. Bhavin V. Patel (P69)
	Dr. Shveta Joshi (P70)
	Dr.Shital Patel (P71)
	Pooja Shankar Nelogal (P72)

- ***Please note your respective oral/ poster serial numbers inserted in the brackets***
- ***The poster sessions will follow after the Flash talk in the main auditorium of respective categories***