

Program Schedule

National Conference on Status and Opportunities in Functional Energy and Electronic Materials (SOFEEM-2024), March 02-03, 2024

Organized by Dept. of Physics, SRM University-AP, Andhra Pradesh

Venue: SR Block, Mini Auditorium

2nd March, Saturday 2024 (Day - 1)

8:30 am to - 9:30 am: Registration, Mini Auditorium, SR Block, SRM University-AP

9:30 am - 10:00 am: Inaugural Session, Mini Auditorium, SR Block, SRM University-AP

Morning Session: 10:00 am – 1:00 pm

Session-I

Session Chair: Dr. Jatis Kumar Dash & Dr. L. N. Patro

10:00 am-10:40 am	Mini Auditorium	Invited Keynote Talk 1	Prof. Sudakar Chandran / IIT Madras	Engineering materials to harvest multifunctional properties
10:40 am-11:20 am	Mini Auditorium	Invited Keynote Talk 2	Prof. Ranjit Kumar Nanda / IIT Madras	Theoretical perspective for designing electrode materials for rechargeable batteries
Refreshment: Tea Break (11:20-11:40 a.m.)				
11:40 am-12:10 pm	Mini Auditorium	Invited Talk 1	Dr. Akhila Kumar Sahu / CECRI	Low temperature PEM fuel cells for stationery and automotive power applications
12:10 pm-12:40 pm	Mini Auditorium	Invited Talk 2	Dr. Narendra Kurra / IIT Hyderabad	Electrochemical Applications of MXene materials
12:40 pm-1:00 pm	Mini Auditorium	Short Invited Talk 1	Dr. Atul S M Tripathi / VIT AP	Solution processed semi-conducting polymers for low-cost eco-friendly electronic devices

***Lunch Break: 1:00 pm – 2.00 pm
(ANNAPURNA MESS, 1st FLOOR)***

Afternoon Session: 2:00 pm. - 4:00 pm

Session-II

Session Chair: Dr. Pankaj Bhalla

2:00 pm- 2:30 pm	Mini Auditorium	Invited Talk 3	Dr. Suryanarayana Jammalamadaka / IIT Hyderabad	Cantilever beam magnetometry - Remote detection of biomolecules
2:30 pm- 3:00 pm	Mini Auditorium	Invited Talk 4	Dr. Kamala Bharathi / SRM IST	Bulk and thin Film all-solid-state Li-ion batteries for real time applications
3:00 pm- 3:20 pm	Mini Auditorium	Short Invited Talk 2	Dr. Guru Prasad Sahoo / N. C. Autonomous College	Exploring copper nitride as a new age optoelectronic material-Experimental and computational approach
3:20 pm- 3:35 pm	Mini Auditorium	Oral 1	Mr. Noah Jacob / SRMAP	Modern designs for enhanced electrochemical and photochemical studies in green energy research
3:35 pm- 3:50 pm	Mini Auditorium	Oral 2	Mr. SM Abzal / SRMAP	Facile growth of solvothermally synthesized 2D layered hexagonal structured Bi ₂ Se ₃ as a potential anode material for lithium-ion batteries
3:50 pm- 4:05 pm	Mini Auditorium	Oral 3	Mr. S Suresh / Vignan	An effectual role of molybdenum ions on the semiconducting temperament of Na ₂ O- PbO-Bi ₂ O ₃ -SiO ₂ Glasses
4:05 pm- 4:20 pm	Mini Auditorium	Oral 4	Mr. Ramkumar / SRMAP	Beyond the chain: impact on charge transport in a π -stacked polymer in molecular electronics

Evening Session: 4:20 pm – 5:45 pm

Poster session with Tea/Snacks in front of SR Block

3rd March, Sunday 2024 (Day - 2)

Morning Session: 9:15 am – 1:10 pm

Session-III

Session Chair: Dr. Siddhartha Ghosh

9:15 am- 9:45 am	Mini Auditorium	Invited Talk 5	Dr. Sreetosh Goswami / IISC	Molecular building blocks for artificial intelligence
9:45 am- 10:15 am	Mini Auditorium	Invited Talk 6	Dr. Koteswara Rao Bommiseti / IIT Tirupati	Quantum floating phase behavior in $S = 5/2$ highly frustrated spin chains
10:15 am- 10:35 am	Mini Auditorium	Short Invited Talk 3	Dr. Tirupataiah Cheredy / VFSTR Deemed to be University	Comprehensive study of mechanical, optical and electrical properties of LGS glass ceramics.
10:35 am- 10:50 am	Mini Auditorium	Oral 5	Mr. K Ramakrushna Achary / SRMAP	Structural and transport studies of mechanochemically synthesized SnF_2 based solid electrolytes for all- solid-state fluoride ion batteries

10:50 a.m. – 11:00 a.m.: Tea/Coffee Break 10 minutes

Session Chair: Dr. Akhil Kumar Sahoo

11:00 am- 11:30 am	Mini Auditorium	Invited Talk 7	Dr. Samir Ranjan Meher / VIT Vellore	Band offset studies of magnetron sputtered cuprous oxide based heterojunctions for photovoltaic applications
11:30 am- 12:00 pm	Mini Auditorium	Invited Talk 8	Dr. Abhimanyu Singh Rana / BMU	Infrared sensitive plasmonic materials for energy saving smart windows
12:00pm- 12:20 pm	Mini Auditorium	Short Invited Talk 4	Dr. Amit Roy / VIT Vellore	Observation of Lampert triangle in PEDOT devices
12:20pm- 12:40 pm	Mini Auditorium	Short Invited Talk 5	Dr. Jitendra Kumar Behera / VIT Vellore	Design of Functional Chalcogenide Materials for Tunable Photonics

12:40 pm-12:55 pm	Mini Auditorium	Oral 6	Mr. Hanumantha Rao / Vignan	Influence of Titanium ions on Physical, Structural and Electrical properties of Tellurite mixed lead alumino germano silicate Glass Ceramics
12:55pm-1:10 pm	Mini Auditorium	Oral 7	Ms. Nagamalleswari Katragadda / SRMAP	Room temperature Polar and Weak-ferromagnetic Oxide with Low Dielectric Loss

1: 00 p.m. - 2.00 p.m.: Lunch Break, (ANNAPURNA MESS 1st FLOOR)

Afternoon Session: 2:00 pm – 4:00 pm

Session-IV

Session Chair: Dr. Abhimanyu Singh Rana

2:00 pm – 2:30 pm	Mini Auditorium	Invited Talk 9	Prof. Dibakar Das / UOH	Novel Lead-free Energy Storage Material for High Temperature Applications
2.30 pm-2:50 pm	Mini Auditorium	Short Invited Talk 5	Dr. Ganesh Kotagiri / VIT AP	Optimizing the Magnetoimpedance ratio in the soft ferromagnetic melt-spun ribbons
2:50 pm-3:05 pm	Mini Auditorium	Oral 8	Mr. Soham Kumar / SRMAP	Smart Energy Harvesting Device: Hybrid nanogenerator
3:05 pm-3:20 pm	Mini Auditorium	Oral 9	Dr. Vamsi Krishna Katta / SRMAP	CrNiNbTi _{1-x} Fex High Entropy Alloys: Enhanced Structural and Solid-State Hydrogen Storage Properties
3:20 pm to 3:35 pm	Mini Auditorium	Oral 10	Mr. Manikant a Majji/ SRMAP	Visible light driven efficient photocatalytic hydrogen production using crystalline elemental Boron nanostructures
3:35 pm-3:50 pm	Valedictory Function			
3:50 pm-4:00 pm	Tea+Snacks			