

AFMD-2024 PROGRAM SCHEDULE (Day-2)

Time (IST)	27.02.2024 (TUESDAY)							
ROOM	TPGA Main Hall	TPGA Mini Hall - 1		TPGA Mini Hall - 2		SBE Prof. G. N. Ramachandran Hall		
Paraell Session 3								
09.00-09.40	<p>Chair: Prof. T. Serkan Kasirga, <i>Bilkent University, Turkey</i> Co - chair: Dr. S. Shanmugam, <i>Chemistry, SRMIST, KTR</i></p> <p align="center">PL 01: Dr. Judy Lee University of Surrey, UK Title: The unique chemical and physical effect of ultrasound cavitation for material synthesis</p>	<p>Chair: Dr. Pavels Onufrijevs, <i>Riga Technical University, Latvia</i> Co - chair: Dr. C. Preferencial Kala, <i>Physics, SRMIST, KTR</i></p> <p align="center">PL 02: Prof. A. Ajayaghosh SRM Institute of Technology, KTR Campus, Chennai Title: Molecular self-assembly and superhydrophobic coatings for energy saving application</p>	<p>Chair: Prof. Nobuyasu Adachi <i>Nagoya Institute of Technology, Japan</i> Co-chair: Dr. Rohit Dir, <i>Physics, SRMIST, KTR</i></p> <p align="center">PL 03: Dr. Rohini Kitture Deputy Editor, Wiley, Pune Title: Effective research publishing: Insider tips and techniques</p>	<p>Chair: Prof. Guillaume Maurin <i>University of Montpellier, France</i> Co - chair: Dr. M. Alagiri, <i>Physics, SRMIST, KTR</i></p> <p align="center">PL 04: Dr. Hyung Chul Ham Inha University, Republic of Korea Title: Computational design of single/double atom catalysts for efficient electrochemical NH₃ production</p>				
ROOM	TPGA Mini Hall 1	TPGA Mini Hall 2	SBE 101	SBE 102	SBE 103	SBE 104	SBE 201	SBE 202
	Symposium A	Symposium B	Symposium C & M	Symposium D	Symposium E, J & I	Symposium F	Symposium G	Symposium H & K
Paraell Session 4								
09.45 - 10.20	<p>Chair: Prof. Sebastian Lauridsson, <i>KTH Royal Institute of Technology, Sweden</i> Co-chair: Dr. T. Vijayakumar, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 17: Prof. Tomoaki Yamada Nagoya University, Japan Title: Electro-optic effect of ferroelectric thin films: strain engineering and exploration of emerging materials</p>	<p>Chair: Prof. Tomoya Ohno, <i>Kitami Institute of Technology, Japan</i> Co - chair: Dr. T. Kalavani, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 18: Dr. M. Sathish Central Electrochemical Research Institute, Karaikudi Title: Fabrication of high energy supercapacitors using porous activated carbon: a journey from lab scale to prototype device</p>	<p>Chair: Prof. N. Gopalakrishnan, <i>National Institute of Technology, Tiruchirappalli</i> Co - chair: Dr. R. M. Hariharan, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 19: Prof. Mohamed Chehimi CNRS, France Title: Agrocaine conversion to reactive and functional biochar for biomedical, environmental and energy applications</p>	<p>Chair: Dr. Ursic Hana, <i>Jozef Stefan Institute, Slovenia</i> Co - chair: Dr. Angeline Little Flower, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 20: Dr. N. Kamaraju IISER, Kolkata Title: Antiferromagnetic topological insulator, MnBi₂T₆ investigated using time domain THz spectroscopy and Pump-Probe Spectroscopy</p>	<p>Chair: Prof. Tomoaki Watanabe, <i>Meiji University, Japan</i> Co - chair: Dr. K. Mani Rahulan, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 21: Dr. C. N. Tharamani Indian Institute of Technology, Ropar Title: Designing a greener energy conversion system for a sustainable future</p>	<p>Chair: Prof. Ramesh Chandra Mallik, <i>Indian Institute of Science, Bengaluru</i> Co - chair: Dr. P. Malar, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 22: Prof. Ryo Teranishi Kyushu University, Japan Title: Miniaturization of BaHfO₃ flux pinning centers in YBa₂Cu₃O_{7-x} superconducting thin film using solution-based metal organic deposition process</p>	<p>Chair: Dr. Mrinmoy De, <i>Indian Institute of Science, Bangalore</i> Co - chair: Dr. Sandeep Lakhera, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 23: Prof. Chien-Hsiang Chang National Cheng Kung University, Taiwan Title: Fabrication of microalgae oil drug delivery carriers</p>	<p>Chair: Prof. Neha Gandhi, <i>Manipal Institute of Technology, Manipal</i> Co - chair: Dr. V. Ramesh, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 24: Dr. Ravichandar Babarao RMIT University, Australia Title: Accelerating the Discovery of Novel Materials for a Sustainable Society: Integrating High Throughput Screening and Machine Learning</p>
10.20 - 10.50	<p align="center">IT 25: Prof. Paul Joseph National Institute of Technology, Warangal Title: Nano-dimensional films for novel devices – elucidating the role of hierarchy, architecture and doping strategies</p>	<p align="center">IT 26: Prof. Prasit Pattananuwat Chulalongkorn University, Thailand Title: Development of bismuth-based materials for light-driven-assisted -charging supercapacitor</p>	<p align="center">IT 27: Prof. Dr. Govind Gupta National Physical Laboratory, New Delhi Title: Fabrication of gas sensors utilizing semiconductor heterostructures</p>	<p align="center">IT 28: Prof. Bhagwati Prasad Indian Institute of Science, Bangalore Title: Electric field control of magnetism: energy-efficient spintronics for AI and IOT applications</p>	<p align="center">IT 29: Dr. Mohd Faiz Bin Mohd Salleh Universiti Malaya, Malaysia Title: Thermoelectric energy harvester for floating system application</p>	<p align="center">IT 30: Dr. T. S. Shyju Sathyabama Institute of Science and Technology, Chennai Title: Earth abundant nitride thin films for energy applications</p>	<p align="center">IT 31: Dr. Sujit Das Indian Institute of Science, Bangalore Title: Manipulation of polar topology</p>	<p align="center">IT 32: Prof. Sangaraju Shanmugam DGIST, South Korea Title: Electrocatalysts for sustainable carbon-free E-fuels</p>
10.50 - 11.05	Tea Break							
Paraell Session 5								
11.05 - 11.35	<p>Chair: Prof. Sudakar Chandran, <i>Indian Institute of Technology, Madras</i> Co - chair: Dr. Elangovan Elamurugu, <i>Physics, SRMIST, KTR</i></p> <p align="center">IT 33: Prof. Hiroaki Satoh Shizuoka University, Japan Title: Silicon-on-insulator photodiode with SP antenna and its applications to advanced light detection</p>	<p>Chair: Prof. A. J. Saleh Ahammed, <i>Jagannath University, Bangladesh</i> Co - chair: Dr. Balaji, <i>Mechanical, SRMIST, KTR</i></p> <p align="center">IT 34: Dr. Suttipong Wannapaiboon Synchrotron Light Research Institute, Thailand Title: Synchrotron based characterizations of electrocatalytic metal-organic frameworks and covalent organic framework-based solid electrolyte interphase for stabilizing anode of rechargeable batteries</p>	<p>Chair: Dr. Hiroki Kase, <i>Shizuoka University, Japan</i> Co - chair: Dr. B. Hariharan, <i>Cintel, SRMIST, KTR</i></p> <p align="center">IT 35: Dr. Suhana Binti Mohamed Sultan Universiti Teknologi Malaysia, Malaysia Title: Hydrothermal optimization of one-dimensional zinc oxide nanostructure arrays for resistive based biosensors</p>	<p>Chair: Prof. Hiroshi Masumoto, <i>Tohoku University, Japan</i> Co - chair: Dr. G.T. Senthil Andavan, <i>Chemistry, SRMIST, KTR</i></p> <p align="center">IT 36: Dr. Rabindra Nath Mahato Jawaharlal Nehru University, New Delhi Title: Structural, magneto-caloric and unusual magnetic behavior in the nanocrystalline manganites</p>	<p>Chair: Prof. Kenji Murakami, <i>Shizuoka University, Japan</i> Co - chair: Dr. Mathimalar, <i>Physics, SRMIST, KTR</i></p> <p align="center">IT 37: Dr. Vasundhara Mutta (Virtual) CSIR-Indian Institute of Chemical Technology, Hyderabad Title: Synthesis mechanisms of chalcogenide nanostructures via aqueous based reflux method for enhanced room temperature thermoelectric performance</p>	<p>Chair: Dr. P. Malar, <i>SRMIST, Chennai</i> Co - chair: Dr. P.C. Karthika, <i>Physics, SRMIST, KTR</i></p> <p align="center">IT 38: Prof. Atsushi Nakamura Shizuoka University, Japan Title: Visible light-driven Z-scheme photocatalyst of SnS₂/g-C₃N₄ for dye decomposition</p>	<p>Chair: Dr. Yuta Kubota, <i>Tokyo Institute of Technology, Japan</i> Co - chair: Dr. A. Tamiselman, <i>Physics, SRMIST, KTR</i></p> <p align="center">IT 39: Dr. Ranita Basu Bhabha Atomic Research Centre, Mumbai Title: Development of high performance thermoelectric material in mid-and high temperature regime for viable power generators</p>	<p>Chair: Dr. Chi-cheng Chiu, <i>National Cheng Kung University, Taiwan</i> Co - chair: Dr. Subhojyoti Sinha, <i>Physics, SRMIST, KTR</i></p> <p align="center">IT 40: Dr. Sakura N. Takeda NARA Institute of Science and Technology, Japan Title: Search of band bending potential curve consistent with the observed electronic states</p>
11.35 - 12.05	Oral Presentation (OP 33 - OP 35)	Oral Presentation (OP 36 - OP 38)	Oral Presentation (OP 39 - OP 41)	Oral Presentation (OP 42 - OP 44)	Oral Presentation (OP 45 - OP 47)	Oral Presentation (OP 48 - OP 50)	Oral Presentation (OP 51 - OP 53)	Oral Presentation (OP 54 - OP 56)
12.05 - 13.00	Poster Presentation (PP 151 - PP 300)							
13.00-14.00	Lunch Break							
Paraell Session 6								
14.00 - 14.35	<p>Chair: Dr. Arief Udhiarto, <i>Universitas Indonesia, Indonesia</i> Co - chair: Dr. P. Malar, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 25: Prof. Shikha Varma (Virtual) Institute of Physics, Bhubaneswar Title: Designing Graphene Quantum dots and their Photo-response</p>	<p>Chair: Dr. Maizatul Azrina Yaakob, <i>UTHM, Malaysia</i> Co - chair: Dr. S. Chandramohan, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 26: Prof. Senthilarasu Sundaram Teesside University, United Kingdom Title: Nanocellulose from waste for energy applications</p>	<p>Chair: Dr. Riyaz Ahmad Mohamed Ali, <i>UTHM, Malaysia</i> Co - chair: Dr. C. Preferencial Kala, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 27: Dr. Najla Fourati SATIE Laboratory, UMR CNRS, France Title: Electrochemical sensors for sustainable agriculture: trends and challenges</p>	<p>Chair: Dr. K. Mohan Kant, <i>VNIT, Nagpur</i> Co - chair: Dr. R. Annie Sujatha, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 28: Dr. Shintaro Yasui Tokyo Institute of Technology, Japan Title: κ-Al₂O₃-type ferroelectrics</p>	<p>Chair: Prof. S. Anandan, <i>MIT, Tiruchirappalli</i> Co - chair: Dr. K. Shanthi, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 29: Prof. Venkata Krishnan (Virtual) Indian Institute of Technology Mandi Title: Green chemistry and heterogeneous catalysis for energy and environmental applications</p>	<p>Chair: Dr. Mohd Faiz Bin Mohd Salleh, <i>Universiti Malaysia, Malaysia</i> Co - chair: Dr. Tusharbhaj H Rana, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 30: Dr. Virgil Andrei (Virtual) University of Cambridge, United Kingdom Title: Integrated light harvesting systems for scalable artificial photosynthesis</p>	<p>Chair: Dr. Elangovan Elamurugu, <i>SRMIST, KTR</i> Co - chair: Dr. R. Ajay Rakesh, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 31: Prof. Muthupandian Ashokkumar (Virtual) University of Melbourne, Australia Title: Ultrasonic synthesis of functional materials</p>	<p>Chair: Dr. Jaivardhan Sinha, <i>SRMIST, KTR</i> Co - chair: Dr. G. Bakiraj, <i>Physics, SRMIST, KTR</i></p> <p align="center">KN 32: Prof. Majdi Hochlaf (Virtual) Université Gustave Eiffel, France Title: First principles methodologies for Probing interfacial interactions and applications</p>
14.35 - 16.15	Oral Presentation (OP 57- OP 66)	Oral Presentation (OP 67- OP 76)	Oral Presentation (OP 77- OP 86)	Oral Presentation (OP 87- OP 96)	Oral Presentation (OP 97- OP 106)	Oral Presentation (OP 107 - OP 116)	Oral Presentation (OP 117 - OP 126)	Oral Presentation (OP 127 - OP 136)
16.15-16.30	Coffee Break							
16.30 - 17.30	Poster Presentation (PP 301 - PP 450)							
17.30-18.30	Cultural Program							
18.30-20.30	Dinner							

Note : PL - Plenary Talk; KN - Keynote; IT: Invited Talk; TT-Technical Talk

TPGA - Dr. T. P. Ganesan Auditorium Mini Hall; SBE - School of Bio-Engineering Building