

Detailed Technical Schedule of 13th National Conference on Condensed Matter Physics and Applications (CMPA)- 2025

Day 0: 07/12/2025 (Not mandatory. To participate, one must register using the link shared to all the participants)
Registration: 2:30-3:00 pm
Visit to Central Research Facilities, Department Tour: 3:00 – 4:00 pm
MAHE campus tour: After 4:00 PM
Dinner: 8:00 pm

Day 1: 08/12/2025
Inaugural Function: 9:00-09:45 am Photo Session and High Tea: 09:45 to 10:00 AM
Plenary Lecture: 10:10 – 11:00 AM Speaker: Prof. Umesh V. Waghmare , Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru “Converting Waste Heat to Electricity: Thermoelectric Chalcogenides” Chair: Dr. Rajendra B. V., Dept. of Physics, MIT Manipal
Keynote 1: 11:00 am – 11:40 am Speaker: Dr. Pavan Nukala , Indian Institute of Science (IISc), Bengaluru “Visualizing earthquakes in 2D ferroelectrics” Chair: Dr. Sudha D. Kamath, Dept. of Physics, MIT Manipal
Poster Session with tea break (11:45-1:00 pm): 60 papers
Lunch (1:00 pm – 2:00 pm)
Keynote 2: 02:00 – 02:40 pm Speaker: Dr. Angappane , Centre for Nano and Soft Matter Sciences (CeNS), Bengaluru “Emerging Trends in Gas Sensors Driven by Advanced Materials Engineering”
Invited 1: 02:40 – 03:10 pm Speaker: Dr. Kiruthika , SASTRA Deemed to be University, Thanjavur “Flexible and Durable Conducting Fabric Electrodes for Next Generation Wearable Supercapacitors”
Invited 2: 3:10 -3:35 pm Speaker: Dr. Manu Patel U. M. , Manipal Institute of Technology (MIT), Manipal “Impact of Binder Materials on Electrochemical Performance of Li-S Battery Cathodes” Chair: Dr. Ismayil, Dept. of Physics, MIT Manipal
Oral Presentations with tea: 3:45 - 5:15 pm, 6 parallel sessions (42 papers) Chairs: Prof. Pramoda K. Shetty, Prof. D. Kekuda, Dr. Mahesha M. G., Dr. A. N. Prabhu Dr. Mamatha D. Daivajna, Dr. Suchand Sandeep
Cultural events 5:30 to 7:30 pm
Dinner: 8:00 pm

Day 2: 09/12/2025
Breakfast: 8:00 to 8:45 am (Library Auditorium)
Keynote 3: 9-00- 9-40 AM Speaker: <i>Dr. Bivas Saha</i> , Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru “Metal/Semiconductor Superlattices: Building Matter Layer-by-Layer” Invited 3: 09:40 – 10:10 am Speaker: <i>Dr. Sreemanta Mitra</i> , GITAM Deemed to be University, Bengaluru “Defects in 2D MoS₂: From Optical Response to Electronic Transport & Their Possible Correlation” Chair: Dr. Bhaghyesh, Dept. of Physics, MIT Manipal
Oral Presentations with tea: 10:15-11:15 pm, 6 parallel sessions (30 papers) Chairs: Prof. Ashok Rao, Prof. Mohan Rao, Prof. Raviprakash, Dr. Gurumurthy S. C. Dr. K. Gowrish Rao, Dr. K. Panda
Poster Session with tea break (10:45-11:50): 55 papers
Lunch (1:00 pm – 2:00 pm)
Keynote 4: 02:00 – 2:40 am Speaker: <i>Dr. P. Vishwanath</i> , Centre for Nano and Soft Matter Sciences (CeNS), Bengaluru “Optical studies on size-reduced colloidal monolayer and its utility as a mask for fabricating plasmonic structures” Keynote 5: 2:40 – 3:10 pm Speaker: <i>Prof. H. S. Nagaraja</i> , National Institute of Technology Karnataka (NITK) Surathkal “Nanostructured materials for electrodes” Invited 4: 03:10 – 03:40 pm Speaker: <i>Dr. Mahesh Padaki</i> , Jain Deemed to be University, Bengaluru “Tunable Porous Electrode material with Enhanced Ion Transport for Next-Generation CDI Water Purification” Chair: Dr. Poornesh P, Dept. of Physics, MIT Manipal
Tea break and networking: 3:40 to 4:10
Valedictory Function: 4:10– 4-50 PM
High tea: 4:50 PM