

INTERNATIONAL SYMPOSIUM

Emerging Materials: Technologies and Applications

#EMTA2025

26-27 November, 2025

Venue: Vivekananda Hall,
Mahindra University, Hyderabad



Organized by: Department of Chemistry

OVERVIEW

International Symposium on "Emerging Materials: Technologies and Applications" (EMTA 2025), organized by the Department of Chemistry, Mahindra University, Hyderabad, brings together leading experts from academia and industry to discuss recent advancements in functional and advanced materials. The symposium will host an interdisciplinary community of scientists from India & UK, focusing on innovative materials for applications in energy, semiconductors, and environmental technologies. It will spotlight state-of-the-art materials, novel techniques, and their applications in addressing real-world challenges. EMTA 2025 serves as a dynamic platform for knowledge and collaboration, offering participants valuable insights into cutting-edge research shaping the future of materials science. Join us to explore emerging trends and contribute to shaping the future of advanced materials and their transformative technologies.

THEMES

- Low Dimensional Materials
- Wearable and Flexible Electronics
- Memristor & Neuromorphic Computing
- Micro-Nano Devices
- Electrochemical Energy Storage Devices
- Electrocatalytic Nanomaterials
- Advanced Sensor Technologies
- Organometallics and Polymers

HIGHLIGHTS

- Exciting Talks
- Panel Discussion
- Knowledge Sharing
- Poster Session
- Lab Adventure: Where Breakthrough Begins
- Nano Microphotography: The Art of Morphology
- ChemPitch: Where Chemistry Meets Innovation!
- Poster Excellence Awards

TECHNICAL PROGRAM

26-27 NOV, 2025

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Day 1: 26th November 2025

Session 1

8:30 – 9:00	Registration
9:00 – 9:10	Lamp Lighting
9:10 – 9:15	Inaugural Address by Vice Chancellor – Dr. Yajulu Medury
9:15 – 9:25	Opening Remarks by Dean of Academics - Prof. Bishnu Pal
9:25 – 9:40	Welcome Address by HoD - Dr. Chitra Gurnani
9:40 – 10:30	Plenary 1: Prof. Gill Reid (University of Southampton, UK)
10:30 – 10:55	Group Photo / Coffee Break

Session 2

10:55 – 11:45	Plenary 2: Prof. G. U. Kulkarni (JNCASR, Bengaluru, India)
11:45 – 12:10	Speaker 1: Dr. Narendra Kurra (IIT Hyderabad, India)
12:10 – 12:35	Speaker 2: Dr. Ramkrishna Matte (CENS, Bengaluru, India)
12:35 – 13:00	Speaker 3: Prof. Kalyan Raidongia (IIT Guwahati, India)
13:00 – 14:20	Lunch Break
14:20 – 15:50	Poster Session

Session 3

15:50 – 16:15	Speaker 4: Dr. Aparna Ganguly (Royal Society of Chemistry, India)
16:15 – 16:40	Nano Micrography: The Art of Morphology
16:40 – 17:00	High Tea
17:00 – 18:00	Lab Adventure: Where Breakthrough Begins
19:00 – 21:00	Gala Dinner

Day 2:

27th November 2025

TECHNICAL PROGRAM

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9:00 – 9:50

9:50 – 10:15

10:15 – 10:35

10:35 – 11:00

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12:35 – 13:00

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14:00 – 14:25

14:25 – 14:50

14:50 – 15:15

15:15 – 15:40

15:40 – 16:20

16:20 – 17:05

17:05 – 17:15

17:15 – 17:30

Session 4

Plenary 3: Prof. Kees De Groot
(University of Southampton, UK)

Speaker 1: Prof. Sanket Goel
(BITS Pilani, Hyderabad, India)

Coffee Break

Speaker 2: Dr. Tukaram Dongale
(Shivaji University, Kolhapur, India)

Speaker 3: Dr. Sai Manohar Gollakota
(Honeywell, Bengaluru, India)

ChemPitch: Where Chemistry
Meets Innovation!

Speaker 4: Prof. SVS. Nageshwara Rao
(University of Hyderabad, India)

Speaker 5: Dr. Tirthankar Jana
(Berger paints, Kolkata, India)

Lunch Break

Session 5

Speaker 6: Dr. Ruomeng Huang
(University of Southampton, UK)

Speaker 7: Dr. Pooja Devi
(CSIR-CSIO, Chandigarh, India)

Speaker 8: Dr. Chitra Gurnani
(Mahindra University, Hyderabad, India)

Speaker 9: Dr. Vinayak Ogale
(Saint Gobain, Chennai, India)

High Tea / Poster Session

Session 6

Panel Discussion: Innovation
Technologies – Going forward
Prof. Gill Reid, Prof. Sanket Goel,
Dr. Pooja Devi

Closing Remarks by Dean R&D
- Prof. Arya Kumar Bhattacharya

Prize Distribution & Vote of Thanks

PLENARY SPEAKERS



Prof. Gill Reid

University of Southampton, UK

Title: Electrodeposition of 2D Transition Metal Dichalcogenide Semiconductors Using Single Source Precursors



Prof. G. U. Kulkarni

JNCASR Bengaluru, India

Title: Twisted Graphene Stacks



Prof. Kees De Groot

University of Southampton, UK

Title: Sustainable Electronic Technologies

INVITED TALKS



Dr. Narendra Kurra

IIT Hyderabad, India

Title: 2D MXenes and their Hybrids for Advanced Energy Storage Devices.



Dr. Ramakrishna Matte

CENS Bengaluru, India

Title: Solution Processing of Low-dimensional Materials and Applications



Prof. Kalyan Raidongia

IIT Guwahati, India

Title: Harvesting Nanofluidic Energy through Reconstructed Layered Materials



Dr. Aparna Ganguly

Royal Society of Chemistry, India

Title: Connecting Chemical Science Communities in India



Dr. Pooja Devi

CSIR-CSIO Chandigarh, India

Title: MXene Engineering for Catalysing Hydrogen Evolution Reactions.



Dr. Tukaram Dongale

Shivaji University, Kolhapur, India

Title: Self-Assembled Collagen-MXene Nanofibers for Biocompatible and Transient Synaptic Electronics.



Dr. Sai Manohar Gollakota

Honeywell, Bengaluru, India

Title: Next-Gen Aerospace Materials:
Opportunities and Graphene Insights.



Prof. SVS. Nageshwara Rao

University of Hyderabad, India

Title: Fabrication and Radiation
Response of Resistive
Switching Devices.



Dr. Tirthankar Jana

Berger paints, Kolkata, India

Title: Polymer Nanocomposite Materials
for Advanced Coating Applications.



Dr. Vinayak Ogale

Saint Gobain, Chennai, India

Title: Advanced Material Science:
Connecting Science to
Business Impact.



Dr. Ruomeng Huang

University of Southampton, UK

Title: Novel Materials and
Memristors for Neuromorphic
Computing.



Prof. Sanket Goel

BITS Pilani, Hyderabad, India

Title: Liquid Intelligence:
Designing Hybrid Inks for Adaptive
Electronics.

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Address: Survey No: 62/1A, Bahadurpally Jeedimetla, Hyderabad - 500043 - Telangana, INDIA

Email: admissions@mahindrauniversity.edu.in | Website: www.mahindrauniversity.edu.in | Phone: 040 - 6713 5100