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| <div> <div>  </div> <div> 36th AGM OF MRSI &amp; 7th INDIAN MATERIALS CONCLAVE and<br/> INTERNATIONAL CONFERENCE ON<br/> EMERGING MATERIALS 2025 </div> <div>  </div> </div> |  |  |
| <div> <b>Inaugural Ceremony</b><br/> <b>Date : 17/12/2025</b><br/> <b>Venue: Pathani Samanta Auditorium, NISER</b> </div>  |  |  |
| 9:30 AM - 9:40 AM  | Lighting of lamp by the Dignitaries                                      |  |
| 9:40 AM - 10:30 AM   | Opening Remarks  | Prof. Pratap K Sahoo<br>Convener, MRSI-ICEM 2025             |
|  | Welcome Address  | Prof. Kulamani Parida<br>Chairman, MRSI-ICEM 2025            |
|  |  | Prof. Tapobrata Som<br>Co-Chairman, MRSI-ICEM 2025           |
|  |  | Prof. S B Krupanidhi<br>President, MRSI                      |
|  | Release of the Conference Souvenir & Abstract booklet by the Dignitaries |  |
| 9:40 AM - 10:30 AM   | Address by Dignitaries   | Prof. Ashok K Ganguli<br>Director, IISER                     |
|  |  | Prof. Ramanuj Narayan<br>Director CSIR-IMMT                  |
|  |  | Prof. Karuna Kar Nanda<br>Director, IOP                      |
|  |  | Prof. Saranjit Singh<br>Vice Chancellor, KIIT Uni            |
|  |  | Prof. Pradipta K. Nanda<br>Vice Chancellor, SOA Uni          |
|  |  | Prof. Himansu Mohan Padhy<br>Chairman, Sophitorium Institute |
|  |  | Prof. Shreepad Karmalkar<br>Director, IIT Bhubaneswar        |
| 10:30 AM - 10:40 PM  | Address by Chief Guest   | Prof. Hirendra Nath Ghosh<br>Director, NISER                 |
| 10:40 AM - 10:50 PM  | Felicitation of the Dignitaries  |  |
| 10:50 AM - 11:00 PM  | Vote of Thanks   | Prof. Bishnu P Biswal<br>Co-Convener, MRSI-ICEM 2025         |
|  | National Anthem  |  |

# MRSI-ICEM 2025

|                     |   |  |   |  |   |
|---------------------|---|--|---|--|---|
|                     | Wednesday, December 17, 2025  |  |   |  |   |
| 8:00 AM - 9:30 AM   | Registration (Venue: Auditorium)  |  |   |  |   |
| 9:30 AM - 11:00 AM  | Inaugural Ceremony (Venue: Auditorium)  |  |   |  |   |
| 11:00 AM - 11:30 AM | High Tea (Venue: Library foyer)   |  |   |  |   |
|                     | Morning session (Venue: Auditorium)   |  |   |  |   |
|                     | Session Chair : Prof. P S Anil Kumar  |  |   |  |   |
| 11:30 AM - 12:15 PM | International Medal: Prof. P M Ajayan, RICE University, USA (online presentation)   |  |   |  |   |
| 12:15 PM - 12:55 PM | PT-01: Prof. Amar Mohanty, University of Guelph, CA   |  |   |  |   |
| 12:55 PM - 1:20 PM  | MRSI-ML-01: Prof. Narayan Chandra Das, IIT, Kharagpur, IN   |  |   |  |   |
| 1:20 PM - 2:30 PM   | Lunch (Venue -Library foyer)  |  |   |  |   |
|                     | Parallel session - I  | Parallel session - II                                | Parallel session - III                                  | Parallel session - IV                                    | Parallel session - V                            |
|                     | Symposium- A (Venue-LH4)  | Symposium- C (Venue-LH5)                             | Symposium- D (Venue-LH3)                                | Symposium- G (Venue-LH2)                                 | Symposium- H (Venue-LH 1)                       |
|                     | Session Chair: Himanshu Biswal  | Session Chair: Rojalin Sahu                          | Session Chair: A. V. Anil Kumar                         | Session Chair: Amit Ranjan                               | Session Chair: Anamitra Mukherjee               |
| 2:30 PM - 2:55 PM   | IT-A01: Aswini Pradhan<br>Hampton Uni, USA  | IT-C01 Vijaya, Rangari<br>Tuskegee Uni. USA          | IT-D01 : Parikshit Moitra<br>IISER-Berhampur, IN        | IT-G01: Olivier Plantevin<br>Paris-Saclay Uni, Orsay, FR | IT-H01 : Swapan Pati<br>JNCASR, IN              |
| 2:55 PM - 3:20 PM   | IT-A02: Siddhartha Ghosh<br>SRM University, IN  | IT-C02 : Manjusri Mishra<br>University of Guelph, CA | CT-D01: Prabhat Kumar Chaudhari<br>AIIMS New Delhi, IN  | IT-G02 Sanjeev Aggarwal<br>Kurukshetra Uni, IN           | IT-H02 : Bahadur Singh<br>TIFR-Mumbai, IN,      |
| 3:20 PM - 3:32 PM   | CT-A01: Anurup Das<br>BARC, IN  | CT-C01: Anu Bala<br>Cardiff Catalysis Institute, UK  | CT-D02: Kunaal Dhingra<br>AIIMS New Delhi, IN           | CT-G01: Rumu Halder Banerjee<br>BARC, IN                 | CT-H01: Anees P<br>IGCAR Kalpakkam, IN          |
| 3:33 PM - 3:45 PM   | CT-A02: Surajit Ghosh<br>MNIT, Jaipur, IN   | CT-C02: Ashish Kumar Kar<br>ESPCI Paris, FR          |   | CT-G02: Durgamadhab Mishra<br>IIT Jodhpur, IN            |   |
| 3:45 PM - 4:10 PM   | Tea break (Venue - Library foyer)   |  |   |  |   |
|                     | Parallel session - I  | Parallel session - II                                | Parallel session - III                                  | Parallel session - IV                                    | Parallel session - V                            |
|                     | Symposium- B (Venue-LH4)  | Symposium- C (Venue-LH5)                             | Symposium- E (Venue-LH3)                                | Symposium- F (Venue-LH2)                                 | Symposium- H (Venue-LH 1)                       |
|                     | Session Chair: Subhankar Bedanta  | Session Chair: Satya P Senanayak                     | Session Chair: Sujit Manna                              | Session Chair: Siddhartha Ghosh                          | Session Chair: Joydeep Bhattacharjee            |
| 4:10 PM - 4:35 PM   | IT- B01: Atindra Nath Pal<br>SNBNCBS, Kolkata, IN   | IT-C03: Kaushik Parida<br>IIT Roorkee, IN            | IT-E01 : Deodatta Shinde<br>BARC, Mumbai, IN            | IT-F01 : Amit Ranjan<br>RGIPT, IN                        | IT-H03 : Prasenjit Sen<br>HRI, Allahabad, IN    |
| 4:35 PM - 5:00 PM   | IT-B02: Abhishek Ranna, MPI-CPfS, DE  | IT-C04: Trilochan Mishra<br>NML Jamshedpur, IN       | IT-E02: Bobby Joseph<br>Elettra-Sincrotrone Trieste, IT | IT-F02 : Ujjwal Pal<br>CSIR-IICT, Hyderabad, IN          | IT-H04 : Rajan Kumar Pandey<br>VIT, Vellore, IN |
| 5:00 PM - 5:12 PM   | CT-B01: Edward Prabu Amaldass<br>IGCAR, IN  | CT-C03: Pankaj Bhalla<br>SRM University AP, IN       |   | CT-F01: Archana Tiwari<br>BHU, IN                        | CT-H02: Renjith S<br>VSSC, ISRO, IN             |
| 5:15 PM - 6:30 PM   | Poster (P:01- P:100) + Tea (Venue: Library 3rd Floor)   |  |   |  |   |
| 6:30 PM- 7:30 PM    | Cultural Program (Venue-Auditorium)   |  |   |  |   |
| 7:30 PM- 9:30 PM    | Dinner  |  |   |  |   |
|                     | NOTES: PT: Plenary Talk (40 mins) ; ML- Medal Lecture (25mins); IT: Invited Talk (25 Mins) ; CT: Contributory Talk(12 Mins) ; P: Poster |  |   |  |   |

# MRSI-ICEM 2025

|   |  |   |   |  |   |
|---|--|---|---|--|---|
|   | Thursday, December 18, 2025  |   |   |  |   |
|   | Morning session I (Venue: Auditorium): Session Chair- Prof. Bedangadas Mohanty |   |   |  |   |
| 9:00 AM - 9:45 AM   | Distinguished Materials Scientist: Prof. S M Yusuf, BARC, Mumbai, IN           |   |   |  |   |
| 9:45 AM - 10:25 AM  | PT-02: Prof. Umesh V Waghmare, JNCASR, IN                                      |   |   |  |   |
| 10:25 AM - 11:05 AM   | PT-03: Prof. Ashok K Ganguli, IISER Berhampur, IN                              |   |   |  |   |
| 11:05 AM - 11:30 AM   | Tea break (Venue - Library foyer)  |   |   |  |   |
|   | Morning session II (Venue: Auditorium): Session Chair- Prof. Mamata Mohapatra  |   |   |  |   |
| 11:30 AM - 11:55 AM   | MRSI Annual prizes: Prof. Sujit Kumar Ghosh, IISER, Pune, IN                   |   |   |  |   |
| 11:55 AM - 12:20 PM   | MRSI Annual prizes: Dr. R Vijay, ARCI, Hyderabad, IN                           |   |   |  |   |
| 12:20 PM - 12:45 PM   | MRSI-ML-02: Dr. Parthasarathi Bera, CSIR-NAL, Bangalore, IN                    |   |   |  |   |
| 12:45 PM - 1:10 PM  | MRSI-ML-03: Dr. Surya Prakash Singh, IICT, Hyderabad, IN                       |   |   |  |   |
| 1:10 PM - 01:35 PM  | MRSI-ML-04: Dr. Parveen Saini, CSIR-NPL New Delhi, IN                          |   |   |  |   |
| 1:35 PM - 02:30 PM  | Lunch (Venue - Library foyer)  |   |   |  |   |
|   | Parallel session - I   | Parallel session - II                                 | Parallel session - III  | Parallel session - IV  | Parallel session - V                            |
|   | Symposium- A (Venue-LH4)   | Symposium- C (Venue-LH5)                              | Symposium- E (Venue-LH3)  | Symposium- G (Venue-LH2)   | Symposium- H (Venue-LH 1)                       |
|   | Session Chair: Debakanta Samal   | Session Chair: Biplab Kumar Patra                     | Session Chair: Ram Shanker Patel                                | Session Chair: Binay k Panigrahi   | Session Chair: Tapan Mishra                     |
| 2:30 PM - 2:55 PM   | IT-A03: Jyoti Ranjan Mohanty, IIT-Hyderabad, IN                                | IT-C05: Sonil Nanda Dalhousie University, CA          | IT-E03: Sajesh P Thomas IIT-Delhi, IN                           | IT-G03: Bibhudutta Rout University of North Texas, USA                                 | IT-H05: Sridhar Sahu IIT(ISM)-Dhanbad, IN       |
| 2:55 PM - 3:20 PM   | IT-A04: Tanuja Mohanty JNU, IN   | IT-C06: Ashutosh Kumar Singh CeNS, IISc Bangalore, IN | IT-E04: Kailash Jena IIT Ropar, IN                              | IT-G04: Chandana Rath IIT BHU, IN  | IT-H06 : Debashis Bandyopadhyay BITS-Pilani, IN |
| 3:20 PM - 3:32 PM   | CT-A03: Shailesh Kumar Khamari RRCAT Indore, IN                                | CT-C04: Dibyendu Ghosh SNU, IN                        | CT-E01: Nirman Chakraborty Technische Universität Darmstadt, GE | CT-G03 : Neha Shukla, IIT Mandi, IN  | CT-H03: Kunchanapalli Ramya, SRM AP, IN         |
| 3:33 PM - 3:45 PM   | CT-A04: Ravindra Naik Bukke IIT Mandi, IN                                      | CT-C05: Anuradha M Ashok PSG-IAS, IN                  |   | CT-G04: Dilruba Hasina IACS, IN  | CT-H04: Nilakantha Tripathy, IIT Ropar, IN      |
| 3:45 PM - 4:15 PM   | Tea break (Venue - Library foyer)  |   |   |  |   |
|   | Parallel session - I   | Parallel session - II                                 | Parallel session - III  | Parallel session - IV  | Parallel session - V                            |
|   | Symposium- B (Venue-LH4)   | Symposium- C (Venue-LH5)                              | Symposium- D (Venue-LH3)  | Symposium- F (Venue-LH2)   | Symposium- H (Venue-LH 1)                       |
|   | Session Chair: Shashi Bhushan Singh  | Session Chair   | Session Chair: Susanta Ku Das                                   | Session Chair: Bikash Ku Jena  | Session Chair: Ashis Kumar Nandy                |
| 4:15 PM - 4:40 PM   | IT-B03: Alope Kanjilal Shiv Nadar IE, Delhi, IN                                |   | IT-D03 : Mrinmoy De IISc Bangalore, IN                          | IT-F03: Chandan Upadhyay IIT (BHU), IN   | IT-H07 : Abir De Sarkar INST, Mohali, IN        |
| 4:40 PM - 5:05 PM   | IT-B04: Ram Shanker Patel, BITS-Pilani (Goa), IN                               |   | IT-D04: Subinoy Rana, IISc Bangalore, IN                        | CT-F02: Ajay Tripathi Sikkim University, IN<br>CT-F03: Sumangala T. P. VIT Vellore, IN | IT-H08 : Koushik Pal IIT-Kanpur, IN             |
| 5:10 PM - 6:10 PM   | Poster (P:101- P:200) + Tea (Venue: Library 3rd floor)                         |   |   |  |   |
| 6:15 PM - 7:30 PM   | MRSI-AGM + Award Session (Venue- Auditorium)                                   |   |   |  |   |
| 7:30 PM-10:00 PM  | Banquet Dinner (Venue: SAC)  |   |   |  |   |
| NOTES: PT: Plenary Talk (40 mins) ; ML- Medal Lecture (25mins); IT: Invited Talk (25 Mins) ; CT: Contributory Talk(12 Mins) ; P: Poster |  |   |   |  |   |

# MRSI-ICEM 2025

|                     |  |   |   |  |
|---------------------|--|---|---|--|
|                     | Friday, December 19, 2025  |   |   |  |
|                     | <b>Morning session I (Venue: Auditorium):</b><br><b>Session Chair- Hari Srikanth, University of South Florida, US</b>                          |   |   |  |
| 9:00 AM - 09:45 AM  | CNR Rao prize lecture: Prof. V P S Awana, NPL, New Delhi, IN   |   |   |  |
| 09:45 AM - 10:30 AM | Distinguished lectureship : Dr. B B Kale, Director Research and Development, Pimpri Chinchwad University Pune, IN                              |   |   |  |
| 10:30 AM - 11:10 AM | PT-04: Stephan Reitzenstein, Technische Universität, Berlin, DE  |   |   |  |
| 11:10 AM - 11:30 AM | Tea break (Venue - Library foyer)  |   |   |  |
|                     | <b>Morning session II (Venue: Auditorium):</b><br><b>Session Chair- Prof. A Srinivasan, NISER</b>  |   |   |  |
| 11:30 AM - 11:55 AM | MRSI-ML-05: Prof. Tharamani C. Nagaiah, IIT Ropar, IN  |   |   |  |
| 11:55 AM - 12:20 PM | MRSI-ML-06: Dr. Venkata Krishnan, IIT Mandi, IN  |   |   |  |
| 12:20 PM - 12:45 PM | MRSI-ML-07: Prof. Sasanka Deka, University of Delhi, IN  |   |   |  |
| 12:45 PM - 01:10 PM | MRSI-ML-08: Prof. Ayan Datta, IACS, Kolkata, IN  |   |   |  |
| 01:10 PM - 01:35 PM | MRSI-ML-09: Dr Sonu Gandhi, DBT-National Institute of Animal Biotechnology, Hyderabad, IN  |   |   |  |
| 1:35 PM - 02:30 PM  | Lunch (Venue - Library foyer)  |   |   |  |
|                     | Parallel session - I   | Parallel session - II   | Parallel session - III  | Parallel session - IV                              |
|                     | <b>Symposium- A (Venue-LH4)</b>  | <b>Symposium- C (Venue-LH5)</b>   | <b>Symposium- D (Venue-LH3)</b>   | <b>Symposium- G (Venue-LH4) 2</b>                  |
|                     | Session Chair: Satyaprakash Sahoo  | Session Chair: Soaraj P Singh   | Session Chair: Palok Aich   | Session Chair: Durga P Mohapatra                   |
| 2:30 PM - 2:55 PM   | IT-A05: Kaushik Mallik,<br>University of Johenseburg, SA   | IT-C09: Jatish Kumar Das<br>SRM University, AP, IN  | IT-D05: Deepa Ghosh<br>INST, IN   | IT-G05: Fouran Singh<br>IUAC, IN                   |
| 2:55 PM - 3:20 PM   | IT-A06: Kuntala Bhattacharjee,<br>IIST, Trivendrum, IN   | CT-C06: Nisha T P<br>St. Teresa's College Ernakulam, IN<br>CT-C07 Sreekanth M. S.<br>VIT, Vellore | CT-D04: Aarti Jaiswal<br>IIT Kanpur, IN   | IT-G06: Shiv Poojan Patel<br>Delhi University, IN  |
| 3:20 PM - 3:32 PM   | CT-A05: Sreekanth G,<br>MITS, Kochi, IN  | CT:-C08: Debendra Prasad Panda<br>Uni. Naples Federico II, IT                                     | CT-D05: Sourav Ghosal<br>KIIT Uni, IN   | CT-G05: .Gopinath Shit<br>IGCAR, Kalpakkam, IN     |
| 2:33 PM - 3:45 PM   |  |   |   | CT-G06: A Chitharanjan Hegde<br>NITK Surathkal, IN |
| 3:45 PM - 4:15 PM   | Tea break (Venue - Library foyer)  |   |   |  |
|                     | Parallel session - I   | Parallel session - II   | Parallel session - III  |  |
|                     | <b>Symposium- B (Venue-LH4)</b>  | <b>Symposium- C (Venue-LH5)</b>   | <b>GC Jain prize talk(Venue -LH3)</b>   |  |
|                     | Session Chair: Subhankar Bedanta   | Session Chair : Bibhudutta Rout   | Session Chair: Venkata Krishnan   |  |
| 4:15 PM - 4:40 PM   | IT-B05 : Hari Srikanth<br>University of South Florida, US  | IT-C11: Ashutosh Mohanty<br>IITKGP, IN  | GCJP-01: Ashok Kumar, IIT Jodhpur (Online Presentation)   |  |
| 4:40 PM - 5:05 PM   | IT-B06: Ramesh Chandra Nath,<br>IISER-Thiruvananthapuram, IN   | CT-C09: Somnath Biswas<br>LNMIIT, Jaipur, IN<br>CT-C10: Y. Pushpalatha Devi<br>BARC, Mumbai, IN   | GCJP-02: Neha Singh, IIT, Kanpur<br>GCJP-03: Rishi Verma, Germany (online presentation)         |  |
| 5:05 PM - 5:30 PM   | IT-B07 : Tanmoy Basu<br>TCG-CREST, IN  | CT-C11: Barnali Dasgupta Ghosh<br>BIT Mesra, Ranchi, IN   | GCJP-04: Hari Narayanan Vasavan, Sweden (online presentation)                                   |  |
| 5:30 PM - 5:42 PM   | CT-B03: Ashutosh Kumar<br>CIT, Ranchi , IN   | CT-C12: Sukanti Behera<br>Maulana Azad NIT Bhopal, IN   | GCJP-05: Dalip Saini, IISER, Mohali (Online Presentation)                                       |  |
| 5:42 PM - 5:54 PM   | CT-B04: Subasa Chandra Sahoo<br>Central University of Kerala, IN   |   | SP-01: Raj Saha, KIIT, Bhubaneswar<br>SP-02: Radhika Sandip Patil, Shivaji University, Kolhapur |  |
| 5:55 PM - 7:00 PM   | Poster (201-311) + Tea (Venue-Library 3rd Floor)   |   |   |  |
| 7:00 PM - 7:45 PM   | Cultural Program (Venue-Auditorium)  |   |   |  |
| 7:45 PM - 9:30 PM   | Dinner   |   |   |  |
|                     | <b>NOTES:</b> PT: Plenary Talk (40 mins) ; ML- Medal Lecture (25mins); IT: Invited Talk (25 Mins) ; CT: Contributory Talk(12 Mins) ; P: Poster |   |   |  |

# MRSI-ICEM 2025

**Saturday, December 20, 2025**

**Morning session I (Venue: Auditorium): Session Chair- Prof. Manoranjan Kar, IIT Patna**

9:00 AM - 09:25 AM

**MRSI-ML-10: Prof. Suresh Kumar Kailasa, Sardar Vallabhai, NIT, Surat, IN**

09:25 AM - 09:50 AM

**MRSI-ML-11: Dr. Debmalya Roy, DMSRDE, Kanpur, IN**

09:50 AM - 10:15 AM

**MRSI-ML-12: Dr. Dillip K. Pradhan, NIT, Rourkela, IN**

10:15 AM - 10:40 AM

**MRSI-ML-13: Prof. Ramesh L Gardas, IIT Madras, Chennai, IN**

10:40 AM - 11:20 AM

**Tea break (Venue - Library foyer)**

**Morning session II (Venue: Auditorium): Session Chair- Prof. Tapobrata Som, IOP Bhubaneswar**

11:20 AM - 11:45 AM

**MRSI-ML-14: Dr. Arijit Sengupta, BARC, Mumbai, IN**

11:45 AM - 12:10 PM

**MRSI-ML-15: Prof. Rupesh S Devan, IIT, Indore, IN**

12:10 PM - 12:35 PM

**MRSI-ML-16: Dr. Sudip Chakraborty, HRI, Prayagraj, IN**

12:35 PM - 1:00 PM

**IT- B08: Prof. Manoranjan Kar, IIT-Patna, IN**

1:00 PM - 02:00 PM

**Lunch (Venue - Library foyer)**

**Parallel session - I**

**Parallel session - II**

**Parallel session - III**

**Symposium- A (Venue-LH4)**

**Symposium- C (Venue-LH5)**

**Symposium- D (Venue-LH3)**

**Session Chair: Rupesh S Devan**

**Session Chair: Jatish Kumar Das**

**Session Chair: Bobby Joseph**

2:00 PM - 2:25 PM

**IT-A08: Pramoda Kumar Nayak  
Jain University, IN**

**IT-C12: Akshaya K. Palai  
CIPET, Bhubaneswar, IN**

**IT-D07: B Neppolian  
SRM University, IN**

2:25 PM - 2:37 PM

**CT-A06: Mousm Charan Sahu  
UCM Madrid, SP**

**CT-C13: Srabanti Ghosh,  
CSIR - CGCRI, IN**

**CT-D05: Manju S.  
SCTIMST, Trivandrum, IN**

2:37 PM - 2:50 PM

**CT-A07: Aparajita Mandal,  
IOP Bhubaneswar**

**CT-C14: Chandra Shekhar Pati  
Tripathi, BHU, IN**

**CT-D06: Kumar Haunsbhavi  
Uni. of Free State, SA**

2:50 PM - 3:02 PM

**CT-A08: Arjun Behera  
Govt. Aut. College, Sundargarh, IN**

**CT-C15: Amanpreet Kaur  
Guru Nanak Dev University, IN**

**CT-D07 : A. Sunil,  
SSSIHL, AP, IN**

3:02 PM - 3:14 PM

**CT-A09: Koteswar Rao Peta  
Uni. of Delhi, South Campus , IN**

**CT-B05: Rakesh Kumar Behera  
SCS, NISER, IN**

3:14 PM - 3:26 PM

**CT-A10: Ashutosh Thakur  
CSIR-NEIST, Jorhat, IN**

**CT-B06: Himanshu Bhatt  
SCS, NISER, IN**

3:30 PM - 3:45 PM

**Tea break (Venue - Library foyer)**

4:00 PM - 5:00 PM

**Veledictory; Poster Awards, and Closing Ceremony**

7:00 PM - 9:00 PM

**Dinner**

**NOTES: ML- Medal Lecture (25mins); IT: Invited Talk (25 Mins) ; CT: Contributory Talk(12 Mins) ; P: Poster**

## MRSI Awardee talks

| Category                          | Name and Affiliation                                 | Title of the talk   |
|-----------------------------------|--|---|
| International Medal               | Prof. P. M. Ajayan, RICE University, USA (Online)    | 2D and 3D Phases of Boron-Carbon-Nitrogen                                   |
| Distinguished Materials Scientist | Prof. S M Yusuf, BARC, Mumbai, IN                    | Exploring Emerging Magnetic Materials                                       |
| MRSI Annual prizes                | Prof. Sujit Kumar Ghosh, IISER, Pune, IN             | Critical Minerals Extraction by Functional Metal–Organic Frameworks (MOFs)+ |
| MRSI Annual prizes                | Dr. R Vijay, ARCI, Hyderabad, IN                     | Development of Advanced Materials and Technologies for Energy               |
| CNR Rao Prize Lecture             | Prof. V. P. S. Awana, NPL, New Delhi, IN             | My encounter with superconducting materials                                 |
| Distinguished Lectureship         | Dr. B. B. Kale, Pimpri Chinchwad University Pune, IN | Layered organic molecules for energy generation and storage                 |

## Plenary Talks

| Talk Code | Name and Affiliation                                     | Title of the talk   |
|-----------|--|---|
| PT-01     | Prof. Amar Mohanty, University of Guelph, CA             | Circular Bio-Economy Driven Sustainable Materials: Future is now in Mitigating the Climate Change                                 |
| PT-02     | Prof. Umesh V Waghmare, JNCASR, IN                       | New Vibrational Spectroscopies based on Quantum Geometry of Electrons   |
| PT-03     | Prof. Ashok K Ganguli, IISER Berhampur, IN               | Frustrated Magnetism and Topological Electronic States in Noncentrosymmetric and Square-Net Rare-Earth Compounds                  |
| PT-04     | Stephan Reitzenstein, Technische Universität, Berlin, DE | Single-Quantum-Dot Devices for Photonic Quantum Technologies: Design, Deterministic Nanofabrication, and Application Perspectives |

## MRSI Medal Lectures

| Talk Code | Name and Affiliation                            | Title of the talk   |
|-----------|---|---|
| ML-01     | Prof. Narayan Chandra Das, IIT, Kharagpur, IN   | Eco-friendly Recyclable and Reprocessable Advanced Polymer–Carbon Nanocomposites for Radiation Shielding  |
| ML-02     | Dr. Parthasarathi Bera, CSIR-NAL, Bangalore, IN | Coatings for renewable energy applications  |
| ML-03     | Dr. Surya Prakash Singh, IICT, Hyderabad, IN    | Development of Light-Harvesting Materials for Optoelectronic Devices  |
| ML-04     | Dr. Parveen Saini, CSIR-NPL New Delhi, IN       | From Designing of Advance Materials to End-of-Life Management of Waste Streams: Holistic Approach for Technologies and Applications Development |
| ML-05     | Prof. Tharamani C. Nagaiah, IIT Ropar, IN       | Designing greener energy conversion system for a sustainable future   |
| ML-06     | Dr. Venkata Krishnan, IIT Mandi, IN             | Non-noble Metal based Materials as Sustainable Heterogeneous Catalysts for Plastic Waste Upcycling  |

| Talk Code | Name and Affiliation   | Title of the talk   |
|-----------|--|---|
| ML-07     | Prof. Sasanka Deka, University of Delhi, IN                  | Engineering Pt and Pd Single-Atom Catalysts on Semiconductors for Improved Photocatalytic Hydrogen Evolution                |
| ML-08     | Prof. Ayan Datta, IACS, Kolkata, IN                          | Buckling and Defects in Two - Dimensional Atomically Thin Monolayers  |
| ML-09     | Dr. Sonu Gandhi, DBT-NIAB, Hyderabad, IN                     | Nanomaterials in Action: Translational Advances from Environmental Sensing to Biomedical Applications                       |
| ML-10     | Prof. Suresh Kumar Kailasa, Sardar Vallabhai, NIT, Surat, IN | Surface modified nanostructured materials: Promising applications in analytical chemistry.                                  |
| ML-11     | Dr. Debmalya Roy, DMSRDE, Kanpur, IN                         | Stress-Induced Self-Organization of Nanostructures in Stretchable Matrices for Flexible Electronics.                        |
| ML-12     | Dr. Dillip K. Pradhan, NIT, Rourkela, IN                     | Structural Phase Transitions in Lead Free Ferroelectric Perovskite Oxides.  |
| ML-13     | Prof. Ramesh L Gardas, IIT Madras, Chennai, IN               | Ionic Liquids and Deep Eutectic Solvents for Sustainable Sorption and Extraction Processes.                                 |
| ML-14     | Dr. Arijit Sengupta, BARC, Mumbai, IN                        | Ionic Liquid, Poly(Ionic Liquid) and Ionic Liquid Based Membranes: 'Green' Multi-Verse Materials For New Age Applications.  |
| ML-15     | Prof. Rupesh S Devan, IIT, Indore, IN                        | Atomic-layered 2D MXenes: Materials driving innovation in sustainable development and clean energy solutions.               |
| ML-16     | Dr. Sudip Chakraborty, HRI, Prayagraj, IN                    | Rashba and Excitonic Physics in Emerging Materials and Correlations with Light-Matter Interaction: A Computational Insight. |

## GC Jain Prize Talks

| Talk Code | Name and Affiliation                               | Title of the talk   |
|-----------|--|---|
| GCJP-01   | Ashok Kumar, IIT Jodhpur (Online)                  | Modified 2D MoS <sub>2</sub> and SnS <sub>2</sub> flakes for Sensing Applications   |
| GCJP-02   | Neha Singh, IIT, Kanpur                            | Inorganic-Organic Heterostructure Devices for Enhanced Electrical Conductivity and Magnetism                                    |
| GCJP-03   | Rishi Verma, Germany (Online)                      | Investigating the Interplay between Hot Electrons, Electric Field, and Thermal Effects in Plasmonic Black Gold-Ni Photocatalyst |
| GCJP-04   | Hari Narayanan Vasavan, Sweden (Online)            | Next-Generation Sodium-Ion Batteries: Coupling Cathode Design with Operando Diagnostics   |
| GCJP-05   | Dalip Saini, IISER, Mohali (Online)                | Design of Functional Materials for Multiscale Energy Harvesting and Sensing Applications  |
| SP-01     | Raj Saha, KIIT, Bhubaneswar                        | Design and Development of Hybrid Memristor  |
| SP-02     | Radhika Sandip Patil, Shivaji University, Kolhapur | Detection of Mycotoxin Using Electrochemical Biosensors   |

## Invited Talks (IT)

| Talk Code          | Name and Affiliation                              | Title of the talk  |
|--------------------|---|--|
| <b>Symposium A</b> |   |  |
| IT-A01             | Aswini Pradhan, Hampton Uni, USA                  | Degenerate transparent wide Bandgap semiconductors for multiplication applications   |
| IT-A02             | Siddhartha Ghosh, SRM University, IN              | Aqueous Based Ultra-Small Magnetic Cr-doped CdSe Quantum Dots as a Potential Dual Imaging Probe in Biomedicine             |
| IT-A03             | Dr. Jyoti Ranjan Mohanty, IIT-Hyderabad, IN       | Creation and manipulation of magnetic spin texture in ferrimagnetic thin film system for application                       |
| IT-A04             | Tanuja Mohanty, JNU, IN                           | Emerging 2D borophene for photonics: Tunable nonlinear optical properties of iron oxide/borophene core shell nanostructure |
| IT-A05             | Kaushik Mallik, University of Johenseburg, SA     | Tailoring of functional materials for multidisciplinary research   |
| IT-A06             | Kuntala Bhattacharjee, IIST, Trivendrum, IN       | Janus Sn on WS <sub>2</sub> and Beyond   |
| IT-A07             | Rajesh Kumar, IIT-Indore, IN                      | Multifunctional electrochromic materials and smart device  |
| IT-A08             | Pramoda Kumar Nayak, Jain University, IN          | Interlayer Excitons and Ultrafast Dynamics in Twisted van der Waals Heterostructures                                       |
| <b>Symposium B</b> |   |  |
| IT-B01             | Atindra Nath Pal, SNBNCBS, Kolkata, IN            | Light–Matter Interactions, Contact Engineering and Single Defect Spectroscopy in Engineered 2D Heterostructures            |
| IT-B02             | Abhishek Ranna, MPI-CPfS, DE                      | Disorder as a Lens: Unconventional Superconductivity in Infinite-Layer Nickelates  |
| IT-B03             | Aloke Kanjilal, Shiv Nadar IE, Delhi, IN          | Realization of ZnO@ $\beta$ -SiC Composite for Neuromorphic Computing  |
| IT-B04             | Ram Shanker Patel, BITS-Pilani (Goa), IN          | Anomalous temperature-dependent Raman spectrum of van der Waals ferromagnet Fe <sub>5</sub> GeTe <sub>2</sub>              |
| IT-B05             | Hari Srikanth, University of South Florida, US    | Anomalous Nernst and Hall Effects in Heuslers and Magnetic High-Entropy Alloys   |
| IT-B06             | Ramesh Chandra Nath, IISER-Thiruvananthapuram, IN | Proximate spin-liquid behaviour in the double trillium lattice antiferromagnets  |
| IT-B07             | Tanmoy Basu, TCG-CREST, IN                        | NV centers in diamond: Boosting quantum sensing through controlled implantation  |
| <b>Symposium C</b> |   |  |
| IT-C01             | Vijaya Rangari, Tuskegee Uni. USA                 | Fish scale-based Nano Hydroxyapatite Reinforced Polylactic Acid Composite Blown Film                                       |
| IT-C02             | Manjusri Mishra, University of Guelph, CA         | Biocarbon Economy for the 2050 Net Zero Target: Strategies to Reduce the global Carbon Foot print                          |
| IT-C03             | Kaushik Parida, IIT Roorkee, IN                   | Wearable Nanogenerators for Next-generation Electronics  |
| IT-C04             | Trilochan Mishra, NML Jamshedpur, IN              | Harnessing the advantage of defects to improve photocatalytic water splitting of 2D tertiary heterojunctions               |
| IT-C05             | Dr. Sonil Nanda, Dalhousie University, CA         | Integrating Biorefinery and Waste Management for Environmental Sustainability, Decarbonization and Circular Economy        |



| Talk Code          | Name and Affiliation                            | Title of the talk   |
|--------------------|---|---|
| IT-C06             | Ashutosh K. Singh, CeNS, IISc Bangalore, IN     | Efforts Toward Developing High-Performance Aqueous Rechargeable Zn-Ion Batteries  |
| IT-C07             | S. K. Srivastava, Institute of Science, BHU, IN | Eu <sup>3+</sup> -Doped Core–Shell Nanophosphor-Based Fluorescent Biosensor for Highly Selective and Sensitive Detection of Double-Stranded DNA |
| IT-C09             | Jatish Kumar Das, SRM University, AP, IN        | Functionalized Spinel Ferrite Nanomaterials as a Unified Platform for Energy Conversion and Storage   |
| IT-C10             | Ritesh Haldar, TIFR-Hyderabad, IN               | Manipulating molecular diffusion in nanoporous membrane   |
| IT-C11             | Ashutosh Mohanty, IITKGP, IN                    | Structure, Dielectric Property and Cation Dynamics in MA <sub>1-y</sub> FA <sub>y</sub> PbX <sub>3</sub> Perovskites                            |
| IT-C12             | Akshaya K. Palai, CIPET, Bhubaneswar, IN        | Diketopyrrolopyrrole (DPP) Derivatives: Materials Design, Optoelectronic and Energy Devices   |
| IT-C13             | Manoranjan Kar, IIT-Patna, IN                   | Conducting Filler Stimulated Polymer Nanocomposite-Based Smart Flexible Nanogenerator for Multiple Applications                                 |
| <b>Symposium D</b> |   |   |
| IT-D01             | Parikshit Moitra, IISER-Berhampur, IN           | Development of Novel Nanomaterials for Molecular Diagnosis of Certain Rare Genetic Disorders  |
| IT-D02             | Manoj Nayak, CSIR-CSIO, IN                      | Porous Hierarchical Functional Materials for Detection and Remediation of Food Toxins and Emerging Pollutants                                   |
| IT-D03             | Mrinmoy De, IISc Bangalore, IN                  | Selective Antibacterial Activity: Nanomaterials to Nano-assemblies  |
| IT-D04             | Subinoy Rana, IISc Bangalore, IN                | Salt-bridge mediated supramolecular systems with augmented catalysis  |
| IT-D05             | Deepa Ghosh, INST, IN                           | Biomaterials for tissue repair: Essential factors and engineering techniques  |
| IT-D07             | B Neppolian, SRM University, IN                 | Role of ultrasonication for material synthesis and environmental remediation  |
| <b>Symposium E</b> |   |   |
| IT-E01             | Deodatta Shinde, BARC, Mumbai, IN               | Understanding Materials at Near-Atomic Spatial Resolution: An Atom Probe Tomography Perspective   |
| IT-E02             | Boby Joseph, Elettra-Sincrotrone Trieste, IT    | Ubiquitous isostructural phase transition in tin based alloys under compression   |
| IT-E03             | Sajesh P Thomas, IIT-Delhi, IN                  | Molecular Origin of Piezoelectricity and Flexoelectricity in Crystalline Materials from Micro-XRD and Quantum Crystallography                   |
| IT-E04             | Kailash Jena, IIT Ropar, IN                     | Exploring Molecules at Aqueous Interfaces Using Sum Frequency Generation Vibrational Spectroscopy   |
| <b>Symposium F</b> |   |   |
| IT-F01             | Amit Ranjan, RGIPT, IN                          | Novel oxide semiconductor particles and their composites for adsorptive and photocatalytic removal of dyes and pollutants from liquid phase     |
| IT-F02             | Ujjwal Pal, CSIR-IICT, Hyderabad, IN            | From Electronic Band Design to Solar Hydrogen: A Materials-Driven Green Energy Vision   |
| IT-F03             | Chandan Upadhyay, IIT (BHU), IN                 | Role of Chemical Pressure and Magnetic Disorders in Rare-earth Spin-Ices  |
| <b>Symposium G</b> |   |   |
| IT-G01             | Olivier Plantevin, Paris-Saclay Uni, Orsay, FR  | Defect tolerance & defect engineering in hybrid perovskite materials  |

| Talk Code          | Name and Affiliation                            | Title of the talk   |
|--------------------|---|---|
| IT-G02             | Sanjeev Aggarwal, Kurukshetra Uni, IN           | Engineering Functional Surfaces with Low-Energy Ion Beams: Role of Surface Composition and Processing Parameters                  |
| IT-G03             | Bibhudutta Rout, University of North Texas, USA | Radiation effects on Energetic Materials and Devices  |
| IT-G04             | Chandana Rath, IIT BHU, IN                      | Thickness Dependent Phase Transformation and Resistive Switching Performance of HfO <sub>2</sub> Thin Films                       |
| IT-G05             | Fouran Singh, IUAC, IN                          | Ion beams in Organic–inorganic hybrid heterojunction devices  |
| IT-G06             | Shiv Poojan Patel, Delhi University, IN         | Crystallization dynamics of Si and Ge in metal/semiconductor bilayer thin films under ion irradiation                             |
| <b>Symposium H</b> |   |   |
| IT-H01             | Swapan Pati, JNCASR, IN                         | Computational Modeling of Materials for finding Glass-like Thermal Conductivity and Quantum Spin Liquid Candidates                |
| IT-H02             | Bahadur Singh, TIFR-Mumbai, IN                  | Modeling Topology, Flat Bands, and High-Order van Hove Singularities in Quantum Materials   |
| IT-H03             | Prasenjit Sen, HRI, Prayagraj, IN               | Accelerated Materials Design using Generative AI  |
| IT-H04             | Rajan Kumar Pandey, VIT, Vellore, IN            | First principles modelling and materials engineering at the gate stack of nanoscale MOS devices                                   |
| IT-H05             | Sridhar Sahu, IIT(ISM)-Dhanbad, IN              | Functionalized Porous 2D COFs and Macrocyclic Compounds: From Hydrogen Storage to Li-ion Batteries                                |
| IT-H06             | Debashis Bandyopadhyay, BITS-Pilani, IN         | Unveiling newly modelled Janus Nb <sub>2</sub> COS MXene as a Promising Anode for Alkali Metal-Ion Batteries: A DFT Investigation |
| IT-H07             | Abir De Sarkar, INST, Mohali, IN                | Insights into Inversion Symmetry Breaking in 2D Materials: Piezoelectricity and Spin-Orbitronics                                  |
| IT-H08             | Koushik Pal, IIT-Kanpur, IN                     | Leveraging Data-driven Approaches and Density Functional Theory to Accelerate Novel Materials Discovery                           |

## Contributory Talks (CT)

| Talk Code          | Name and Affiliation                     | Title of the talk   |
|--------------------|--|---|
| <b>Symposium A</b> |  |   |
| CT-A01             | Anurup Das, BARC, IN                     | Optical Properties of Cerium Doped Gd <sub>2</sub> O <sub>3</sub> –SrO–P <sub>2</sub> O <sub>5</sub> –SiO <sub>2</sub> (GSPS) Glass for Scintillator Applications |
| CT-A02             | Surajit Ghosh, MNIT, Jaipur, IN          | Applications of Sol-Gel Synthesized Perovskite Zinc Titanate Photocatalysts   |
| CT-A03             | Shailesh Kumar Khamari, RRCAT Indore, IN | Photoluminescence Intensity and Polarization Enhancement in GaAs QW–Microcavity System  |
| CT-A04             | Ravindra Naik Bukke, IIT Mandi, IN       | High-Performance Zinc–Tin Oxide Semiconductor-Based Thin Film Transistors   |
| CT-A05             | Sreekanth G, MITS, Kochi, IN             | Third-Order Nonlinear Optical, Thermal, Dielectric and Ferroelectric Characteristics of Tri-allylthiourea Cadmium Chloride Single Crystals                        |

| Talk Code          | Name and Affiliation                                   | Title of the talk   |
|--------------------|--|---|
| CT-A06             | Mousm Charan Sahu, UCM Madrid, SP                      | Mimicking Neural Complexity Leveraging the Metal–Insulator Transition in Rare Earth Nickelates  |
| CT-A07             | Aparajita Mandal, IOP Bhubaneswar                      | Experimental Investigation Combined with Physics-Based Modelling of Vacancy-Controlled Switching in V <sub>2</sub> O <sub>5</sub> /ITO Memristors                       |
| CT-A08             | Koteswar Rao Peta, Uni. of Delhi, South Campus, IN     | Synthesis Strategies of Various Zinc Oxide Nanostructures and Their Potential Applications  |
| CT-A09             | Ashutosh Thakur, CSIR-NEIST, Jorhat, IN                | Solid-State Phosphors from Coal-Derived Carbon Quantum Dots for White-Light-Emitting Devices  |
| <b>Symposium B</b> |  |   |
| CT-B01             | Edward Prabu Amaldass, IGCAR, IN                       | Current redistribution induced anomalous Magneto-transport signatures in the Superconductor/Topological insulator (Mo/Bi <sub>2</sub> Se <sub>3</sub> ) heterostructure |
| CT-B03             | Ashutosh Kumar, CIT, Ranchi , IN                       | Electronic and magnetic attributes of highly correlated vanadium-oxides   |
| CT-B04             | Subasa Chandra Sahoo, Central University of Kerala, IN | Effect of diamagnetic Zn-substitution on Enhancement of Magnetization in Ni-ferrite nanop   |
| <b>Symposium C</b> |  |   |
| CT-C01             | Anu Bala, Cardiff Catalysis Institute, UK              | Green Halide Perovskites as Next-Generation Photocatalysts: A Rational Design Approach  |
| CT-C02             | Ashish Kumar Kar, ESPIC Paris, FR                      | Metal-organic Framework for Hydrogen Production by Photocatalytic Overall Water Splitting   |
| CT-C03             | Pankaj Bhalla, SRM University AP, IN                   | Field driven orbital Hall conductivity in time reversal symmetry broken Weyl semimetals   |
| CT-C04             | Dibyendu Ghosh, SNU, IN                                | Synergistic Spin Polarization and Catalytic Enhancement in Transition Metal Oxide Under Magnetic Bias   |
| CT-C05             | Anuradha M Ashok, PSG-IAS, IN                          | Strategies for effective enhancement of Thermoelectric power conversion efficiency of complex oxides  |
| CT-C06             | Nisha T P, St. Teresa's College Ernakulam, IN          | Tailoring 2D nanostructures: Strategies for enhanced electrocatalytic hydrogen production   |
| CT-C07             | Sreekanth M. S., VIT, Vellore                          | Improved Tribo-performance of MoS <sub>2</sub> functionalized MWCNTs hybrid reinforced epoxy composites   |
| CT-C08             | Somnath Biswas, LNMIIT, Jaipur, IN                     | UV absorption and photocatalytic properties of graphitic-carbon coated 8 mole% yttria-stabilized zirconia nanoplatelets   |
| CT-C09             | Y. Pushpalatha Devi, BARC, Mumbai, IN                  | Development and Characterization of Y-rich Zr–2.5Nb Alloys for Hydrogen Gettering Applications  |
| CT-C10             | Barnali Dasgupta Ghosh, BIT Mesra, Ranchi, IN          | Ag doped ZnO/PVDF Composites: An Excellent Piezoelectric Energy Harvesting and Storage Material   |
| CT-C11             | Sukanti Behera, Maulana Azad NIT Bhopal, IN            | Investigation of Hydrogen Evolution Reaction in Two-Dimensional Transition Metal Dichalcogenides  |
| CT-C12             | Srabanti Ghosh, CSIR - CGCRI, IN                       | Next-Generation Semiconductor Heterostructures in Solar Fuel Production: Unveiling Trends and Underlying Mechanisms   |
| CT-C13             | Chandra Shekhar Pati Tripathi, BHU, IN                 | Improved Piezocatalytic Performance of BaTiO <sub>3</sub> -Based Heterostructure Nanocomposites for Environmental Remediation   |

| Talk Code          | Name and Affiliation                                     | Title of the talk  |
|--------------------|--|--|
| CT-C14             | Amanpreet Kaur, Guru Nanak Dev University, IN            | Bimetallic coordination network for ultrahigh performance in supercapacitor energy storage applications                                |
| CT-C15             | Rakesh Kumar Behera, SCS, NISER, IN                      | Ultrafast Charge Carrier Dynamics in CsPbBr <sub>3</sub> –PbSe Epitaxial Nanocrystal Heterostructures                                  |
| <b>Symposium D</b> |  |  |
| CT-D01             | Prabhat Kumar Chaudhari, AIIMS New Delhi, IN             | Direct 3D-Printed Aligners: Integrating Material Science and Digital Orthodontics for Next-Generation                                  |
| CT-D02             | Kunaal Dhingra, AIIMS New Delhi, IN                      | Chlorhexidine polymer-based electrospun local drug delivery scaffold for treating periodontitis  |
| CT-D03             | Debendra Prasad Panda, Uni. Naples Federico II, IT       | DMSO-Free Tin Perovskites Solar Cells  |
| CT-D04             | Aarti Jaiswal, IIT Kanpur, IN                            | Rapid detection of Punica granatum juice adulteration via Eco-friendly AgNPs synthesised from Zingiber officinale                      |
| CT-D05             | Manju S., SCTIMST, Trivandrum, IN                        | Biodegradable Radiopaque Microbeads for Trans-Arterial Chemoembolization for Hepatocellular Carcinoma                                  |
| CT-D06             | Kumar Haunsbhavi, Uni. of Free State, SA                 | Fabrication of Gd-doped In <sub>2</sub> S <sub>3</sub> thin films prepared by nebulised spray pyrolysis for photodetector applications |
| CT-D07             | A. Sunil, SSSIHL, AP, IN                                 | A Smart Clay Biosensor: Luminescent Clays for On-Site Phosphate Detection  |
| <b>Symposium E</b> |  |  |
| CT-E01             | Nirman Chakraborty, Technische Universität Darmstadt, GE | Operando probing of functional surfaces towards real-time monitoring of surface-analyte hybridization routes                           |
| <b>Symposium F</b> |  |  |
| CT-F01             | Archana Tiwari, BHU, IN                                  | Effects of doping and nanostructuring on magnetic and thermoelectric properties of multicomponent alloys                               |
| CT-F02             | Ajay Tripathi, Sikkim University, IN                     | Laser ablation Synthesis for High Entropy Alloy Nanoparticle   |
| CT-F03             | Sumangala T. P., VIT Vellore, IN                         | Materials selection and properties: Tailoring EMI shielding efficiency of polymer composites   |
| <b>Symposium G</b> |  |  |
| CT-G01             | Rumu Halder Banerjee, BARC, IN                           | Effect of Carbonate Substitution on Radiation Stability of Fluorapatites   |
| CT-G02             | Durgamadhab Mishra, IIT Jodhpur, IN                      | Novel Processes for Development of Rare Earth Free Nanoscale Magnetic Materials with Tailored Morphologies for Permanent Magnets       |
| CT-G03             | Neha Shukla, IIT Mandi, IN                               | Sustainable Solutions for Next-Generation Electronics: The Role of E-Waste Recycling   |
| CT-G04             | Dilruba Hasina, IACS, IN                                 | Controlled Bi-directional Threshold Switching Behaviours for Random Number Generation Applications                                     |
| CT-G05             | Gopinath Shit, IGCAR, Kalpakkam, IN                      | Effect of Ion Irradiation on the Corrosion Resistance Behaviour of SS 304L   |
| CT-G06             | A Chitharanjan Hegde, NITK Surathkal, IN                 | Magneto-electrodeposition of Ni-V alloy coatings for better corrosion protection   |
| <b>Symposium H</b> |  |  |
| CT-H01             | Anees P, IGCAR Kalpakkam, IN                             | Particle-to-wave-like crossover in thermal transport of materials: A Wigner formulation approach                                       |

| Talk Code | Name and Affiliation               | Title of the talk   |
|-----------|------------------------------------|---|
| CT-H02    | Renjith S, VSSC, ISRO, IN          | Molecular Dynamics Simulation for Predicting the Physical Properties of Cured HTPB / TDI System   |
| CT-H03    | Kunchanapalli Ramya, SRM AP, IN    | Computational Insights into Biomarker Adsorption on Functionalized $\text{Ti}_3\text{C}_2\text{T}_x$ MXenes for Neurodegenerative Disease Sensing |
| CT-H04    | Nilakantha Tripathy, IIT Ropar, IN | Harnessing Ferroelectricity for Multifunctional 2D Materials  |