**Two-Day Critical Minerals Symposium and Workshop**

January 3-4, 2025 | IIT Hyderabad

<https://che.iith.ac.in/aicmrh-2025/index.html>

**Day 1: 3rd January 2025**

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| **09:00-10:00** | **Inaugural session Conducted by Prof Narsimha** | | |
| 09:00-09:03 | Lighting of the Lamp | | |
| 09:03-09:06 | Welcome by **Prof B S Murty**, Director, IIT Hyderabad | | |
| 09:06-09:10 | Opening Remarks byGuest of Honour, **Mr Balaram Naik**, CMD, Singareni Collieries Company Limited | | |
| 09:10-09:15 | Opening Remarks byGuest of Honour, **Ms Hilary McGeachy,** Consul General,  Australian Consulate-General Bengaluru | | |
| 09:15-09:25 | Address byGuest of Honour, **Mr Sridhar Babu Duddilla**, Minister for Industries, Telangana | | |
| 09:25-09:35 | Address byGuest of Honour, **Mr Batti Vikramarka Mallu**, Dy Chief Minister, Telangana | | |
| 09:35-09:50 | Address by **Chief** Guest, **Mr G Kishan Reddy**, Minister of Mines, Government of India | | |
| 09:50-09:54 | MoU Signing between IIT Hyderabad and Singareni Collieries Company Limited | | |
| 09:54-09:58 | Vote of thanks **Prof M Yellishetty**, Monash University | | |
| 09:58-10:00 | **National anthem** | | |
| **Group Photograph (10-00-10:15)** | | | |
| **10:15**-**11:00** | **High Tea** | | |
| **Time** | **Activity** | **Speaker** | **Session Chair** |
| 11:00-11:30 | Plenary Talk 1 | [Prof Veena Sahajwalla](https://research.unsw.edu.au/people/scientia-professor-veena-sahajwalla), Univ New South Wales | **Dr D Pandey**, Director Atomic Minerals Directorate |
| 11:30-12:00 | Plenary Talk 2 | [Prof Suresh Bhargava](https://www.rmit.edu.au/profiles/b/suresh-bhargava), RMIT University |
| 12.00-12:20 | Keynote Talk 1 | Mr Dinesh Mohar, Ministry of Mines | **Dr K Balasubramanian**  Director, NonFerrous Materials Technology Development Centre |
| 12:20-12:40 | Keynote Talk 2 | Mr Roopwant Singh, Gujarat Mineral Development Corporation |
| 12:40-13:00 | Keynote Talk 3 | Mr Rajat Verma, Lohum Cleantec |
| **13:00-14:00** | **Lunch break** | | |
| 14:00-14:20 | Keynote Talk 4 | [Prof Sankar Bhattacharya](https://www.monash.edu/engineering/sankarbhattacharya), Monash University | **Dr R Ratheesh**  Director, Centre For Materials for Electronics Technology, Hyderabad |
| 14:20-14:40 | Keynote Talk 5 | [Prof Edward Buckingham](https://www.monash.edu/business/our-people/edward-buckingham2), Monash University |
| 14:40-15:00 | Keynote Talk 6 | Dr Vilas Tathavadkar, Hindalco Industries |
| 15:00-15:15 | Invited Talk 1 | Dr Ashok Kamaraj, IIT Hyderabad | **D Venkateswara Reddy,** Director (P&P), SCCL |
| 15:15-15:30 | Invited Talk 2 | Dr Prabhakar Sangurmath, formerly with Hutti Gold Mines |
| **15:30-16:00** | **Tea Break** | | |
| 16:00-16:20 | Keynote Talk 7 | [Prof Mainak Majumdar](https://www.monash.edu/engineering/mainakmajumder), Monash University | [**Dr R Vijay**](https://www.arci.res.in/people-pages/1567580671_Vijay-cv.pdf)  Director, Advanced Research Centre for Powder Metallurgy and New Materials |
| 16:20-16:40 | Keynote Talk 8 | [Prof Mohsen Yahyaei](https://smi.uq.edu.au/profile/824/mohsen-yahyaei), University of Queensland |
| 16:40-17:00 | Keynote Talk 9 | [Prof Muhammad Akbar Rhamdhani](https://experts.swinburne.edu.au/949-akbar-rhamdhani), Swinburne University | **Dr Mohan B Verma,** formerly with Atomic Minerals Directorate |
| 17:00-17:20 | Keynote Talk 10 | Dr Ramanuj Narayan, CSIR-Institute of Minerals and Materials Technology (IMMT) |
| **Cultural Programme & Dinner (18:30-21:30)** | | | |

**Day 2: 4th January 2025**

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| Time | Activity | Name of the Speaker | Session Chair |
| 09:00-09:20 | Keynote Talk 11 | Prof Mohan Yellishetty, Monash University | **Dr Sandip Ghosh Chowdhury** Director, CSIR-National Metallurgical Laboratory (NML), Jamshedpur |
| 09:20-09:40 | Keynote Talk 12 | Sh D Singh, formerly with IREL Limited |
| 09:40-10.00 | Keynote Talk 13 | Dr Balamuralikrishnan, Defence Metallurgical Research Laboratory |
| 10:00-10:20 | Keynote Talk 14 | Dr Pradip, formerly with Tata Research Development and Design Centre | **Dr S Ravi,** Dy DG & Head GSI Training Institute |
| 10:20-10:40 | Keynote Talk 15 | Dr Sakthi Saravanan Chinnasamy, IIT Bombay |
| 10:40-10:55 | Invited Talk 3 | Dr Abhilash, NML |
| **10:55**-1**1:20** | **Tea break** | | |
| 11:20-12:20 | Panel Discussion 1: **Technology Road Map**  (Exploration, Mining, Extraction & Processing Technologies) | Dr C S Singh, Coal India Ltd  Dr Kali Sanjay, IMMT  Mr Anupam Jalote, Gujarat Mineral Development Corporation  Dr Bhuvana Kamath Shanbhag, AMITY University  Prof Raman Singh, Monash University  Professor Prashant Sonar, Queensland University of Technology | **Prof Brajesh K Dubey**  IIT Kharagpur |
| 12:20-13:20 | Panel Discussion 2: **Policy Road Map**  (Education, Research, Innovation, Start-ups, Regulations & Policies) | Mr Anshuman Tripathi, National Security Council  Dr Lalan Prasad Singh, Dy DG, GSI Telangana region  Dr P K Banerjee, Central Institute of Mining and Fuel Research  Dr Sapna A Narula, NIAM Ministry of Agriculture  Professor Kannan Govindan, University of Adelaide  Assoc Prof Vinod Mishra, Monash University | **Prof Radhakrishna Munukutla**  Head of Department, Earth Sciences, IIT Bombay |
| **13:20-14:20** | **Lunch break** | | |
| 14:20-15:40 | Open Discussion: **Way Forward** | | Prof M Yellishetty |
| 15:40-16:00 | Valedictory Ceremony | | Prof M Yesllishetty & Prof M Narasimha |
| 16:00-16:30 | **High Tea** | | |

**Pre-Workshop Training on Critical Minerals on 2nd January 2025**

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| **Time** | **Activity** | **Speaker** |
| 08:15-08:45 | Registration | Student team |
| 08:45-09:00 | Inaugural Session | Dr T Sreenivas, Prof N Mangadoddy |
| 09:00-10:00 | Geological Exploration of Critical Minerals | Dr K L Mundra, Additional Director AMD |
| 10:00-11:00 | Characterisation | Dr Srinivas Rao, formerly with IMMT |
| **11:00-11:15** | **Tea Break** | |
| 11:15-12:15 | Beneficiation of Critical Minerals | Dr T Sreenivas, formerly with BARC |
| 12:15-13:15 | Refining & Extraction of Critical Minerals from E-Waste | Dr Nikhil Dhawan, IIT Roorkee |
| **13:15-14:20** | **Lunch break** | |
| 14:20-15:20 | Rare Earth Elements Extraction & Recycling | Dr Borra Chennarao, IIT Kharagpur |
| 15:20-16:20 | Critical Metals & Alloys | Dr Alok Awasthi, BARC |
| **16:20-16:50** | **Tea Break** | |
| 16:50-17:50 | Critical Minerals Mining | Dr Ram Chandra, NIT Surathkal |
| 17:50-18:40 | Digital Technologies in Critical Minerals & Metals | Dr Venkat Runkana, TCS |