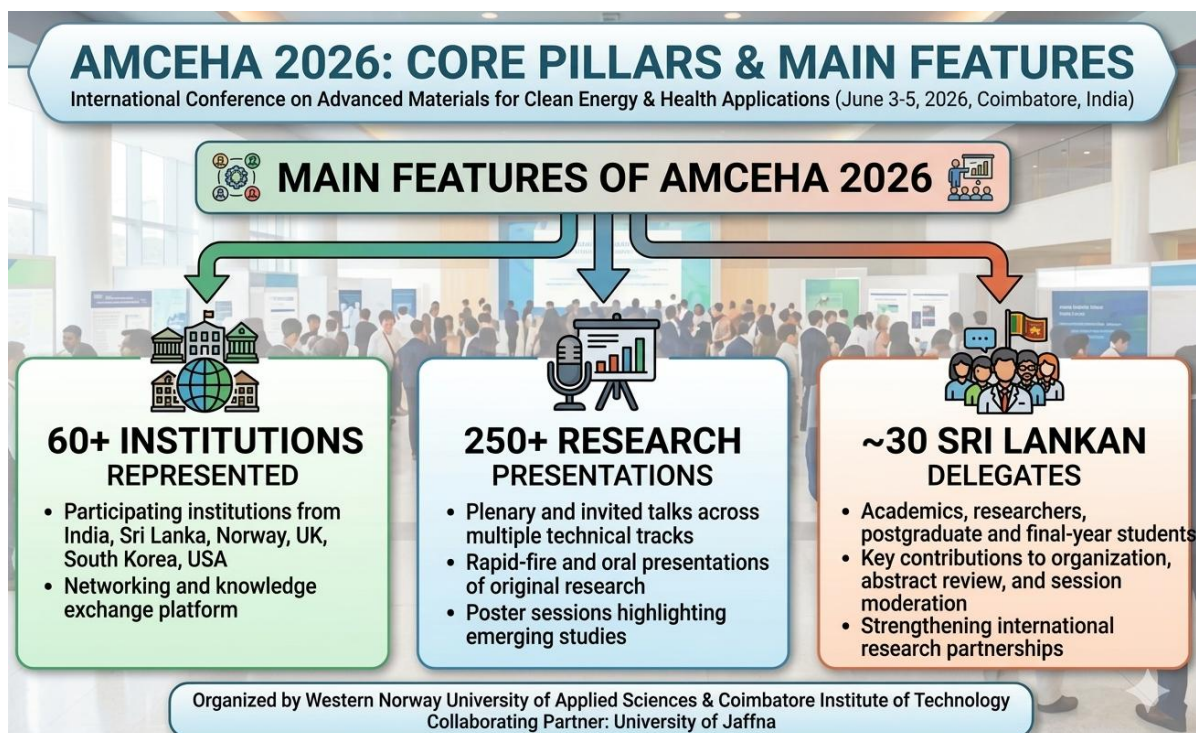


Report on International Conference, Workshop and Summer School in India

Date	Event	Venue
June 3 – 5	International Conference on Advanced Materials for Clean Energy and Health Applications	Coimbatore Institute of Technology
May 31 - June 1,	International Workshop: Hands-on Training on Characterization of Advanced Materials	Alagappa University
May 28 – 30	Summer School on AI, DFT, and Materials-Driven Hydrogen Enabling Technologies	IIT Madras

1. Fourth International Conference on Advanced Materials for Clean Energy and Health Application (AMCEHA 2026)



- Strong Institutional Representation:** Under the HRNCET project, a delegation of nearly 30 academics, researchers, postgraduate students, and final-year undergraduates from the Universities of Jaffna and Vavuniya, the University of Peradeniya, the Sustainable Energy Authority, and the National Institute of Fundamental Studies actively participated in the Fourth International Conference on Advanced Materials for Clean Energy and Health Applications (AMCEHA 2026), held at the Coimbatore Institute of Technology (CIT) from June 3–5, 2026.



Report on Research Collaborative activities in India | May 28 – June 6, 2026

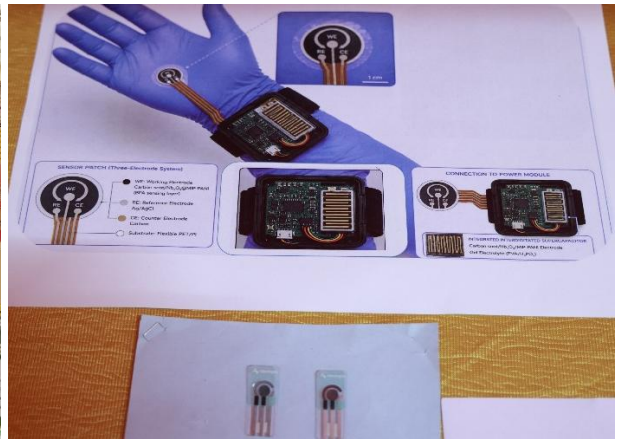
- **High-Level Conclave:** A premier roundtable brought together distinguished academic and industrial leaders, including five Vice-Chancellors (featuring the leadership of the Universities of Jaffna and Vavuniya), eleven R&D directors, the Chairman of the Sustainable Energy Authority of Sri Lanka, the Director of the National Institute of Fundamental Studies (Sri Lanka), and the Director General of CSIR (India).

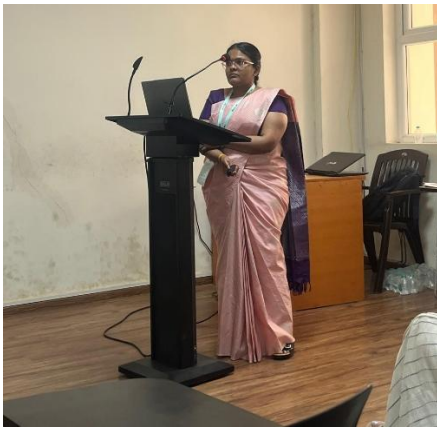


- **Global Networking & Knowledge Exchange:** Serving as an outstanding platform for research collaboration, the conference brought together experts from more than **60 institutions** and featured **over 250 research presentations**. Global participants represented India, Sri Lanka, Norway, the United Kingdom, South Korea, and the United States.



- **Innovative Project Showcase:** A signature session evaluated 17 novel prototypes and working models addressing global challenges in health, materials, and energy. Five premier awards were presented to young innovators from IIT Madras, Anna University, the University of Madras, Western Norway University of Applied Sciences, and Amrita University.





• Tangible Outcomes & Follow-ups:

- **Journal Publications:** High-quality research papers selected from the 250+ presentations will be peer-reviewed and published across more than five high-impact international scientific journals.
- **AMCEHA 2027 Mobilization:** HRCET project coordinators Prof. Dhayalan Velauthapillai and Prof. Punniamoorthy Ravirajan officially ratified that the Fifth International Conference (AMCEHA 2027) will be hosted across Jaffna and Kandy, Sri Lanka.
- **Call for Abstracts:** The formal Call for Abstracts for AMCEHA 2027 will be launched next month via the official project platform (hrncet.jfn.ac.lk) to expand global clean energy networks.

➡ **Core Intellectual Contributions:** As principal collaborating partners, academics from the University of Jaffna made significant intellectual contributions to the main organizers, CIT (India) and the Western Norway University of Applied Sciences (Norway), by reviewing abstracts, chairing technical sessions, and actively shaping the conference program.





Members of Organising committee from HVL, Norway Members of Organising committee from Sri Lanka



Conference Participants

2. Alagappa University Visit & International Workshop

- **Regional Transit:** On May 31, the academic delegation executed a transit frame to Karaikudi via Tiruchirappalli Airport for regional integration.
- **Analytical Training & Workshop:** On June 1, the university hosted an *International Workshop on Advanced Instrumentation Techniques for Nanomaterial-Based Clean Energy and Health Applications* at the ALU Science Campus.
- **Core Activities:** The program featured tours of advanced instrumental facilities supporting materials science and chemistry, alongside dedicated parallel technical meetings between HVL and ALU officials. These sessions focused specifically on in-credit curriculum alignment and student/faculty exchange financial structures.
- **Tangible Outcomes & Follow-ups:**
 - **Applied Industry Frameworks:** Joint strategies were formulated to improve research translation, enhance postgraduate experimental training, and deploy innovation-driven partnerships to bridge academic instrumentation with commercial manufacturing.

3. Three-Day Summer School (Organised by IIT Madras & Anna University)

- **Overview & Themes:** A Three-Day Summer School on *AI-, DFT-, and Materials-Driven Hydrogen Enabling Technologies* was held from May 28–30, 2026, at IIT Madras. Organized by IIT Madras and Anna University, the program provided comprehensive exposure to hydrogen innovation, machine learning-driven materials discovery, advanced fuel cells, and global hydrogen ecosystems.
- **Key Content:** Lectures bridged foundational theories, laboratory safety, and responsible technological translation. The curriculum provided a postdoctoral researcher and three PhD students from the University of Jaffna, participating under collaborations with the Western Norway University of Applied Sciences (HVL) and the University of Bergen (UiB), with deep insight into advanced computational modeling and clean energy research methodologies.
- **Immediate Outgrowth:** Bilateral discussions on hydrogen and fuel technologies were initiated with key IIT Madras faculty, including Prof. Raghuram Chetty and Dr. Aravind Kumar Chandiran.
- **Tangible Outcomes & Follow-ups:**
 - **Short-Term Placement:** Mr. Rajaramanan, a participating PhD student from the University of Jaffna, will immediately transition into a research stay of at least four weeks inside the specialized laboratories of IIT Madras to continue his hands-on material testing.



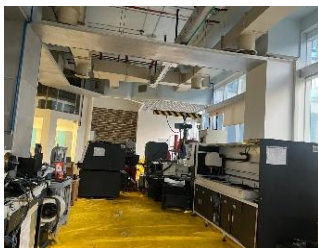
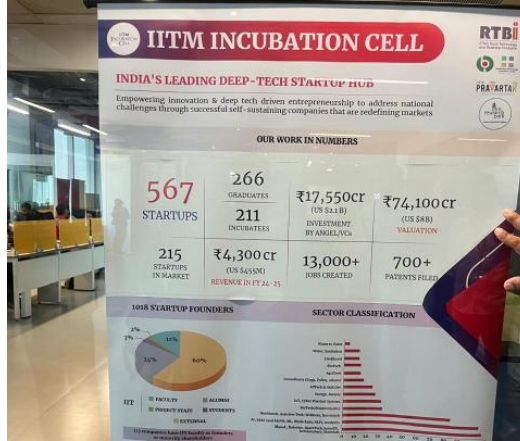
Institutional Visits & Research Parks

A. IIT Madras Research Facilities & Research Park

- **Deep-Tech Innovation Footprint:** Day 1 featured a dedicated site tour of the IIT Madras research infrastructure and the renowned IIT Madras Research Park—recognized as India's leading deep-tech innovation hub.
- **Commercialization Benchmark:** Delegates analysed the park's successful model for translating academic science into commercial market ventures. Operational achievements highlighted during the visit included:
 - A pipeline hosting over **560 startups**, with more than **210 actively trading** in the commercial market.

Report on Research Collaborative activities in India | May 28 – June 6, 2026

- The generation of more than **13,000 technology sector jobs**.
- Facilitation of over **700 patents** and an annual recorded revenue of approximately **LKR 145 billion** during the 2024/2025 financial year.
- A diverse ecosystem where **60% of the 1,018 total startup founders** are external entrepreneurs possessing no prior direct affiliation to IIT Madras.
- IIT Madras – Research Park & Discovery Campus

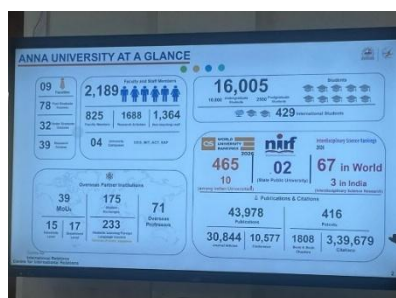




- **Technical Insights:** Senior technical engineers and scientists from the park (including representatives from the EH Group and the Center for Fuel Cell Technology [CFCT-ARCI]) provided industry-standard methodologies for diagnostic monitoring, interface surface chemistry, and the optimization of hydrogen fuel cell power operations.

B. Anna University

- **Collaborative Review:** On the afternoon of Day 2 (May 29), an institutional visit was conducted at Anna University, Chennai, to review ongoing collaborative energy research initiatives.
- **Tangible Outcomes & Follow-ups:**
 - **Long-Term Visiting Research:** Productive research matchmaking sessions with Anna University academics Dr. Shubra Singh and Dr. R. Vidya culminated in a formalized agreement. Ms. Chapa, a University of Jaffna PhD student, will spend several months as a visiting researcher under the direct supervision of Dr. R. Vidya to complete computational modeling segments of her doctoral dissertation.



C. SRM University

- **Ecosystem Exposure:** On the morning of Day 3 (May 30), international faculty members from Norway, South Korea, and Sri Lanka visited SRM University to survey local laboratory assets. They rejoined the primary delegation in the afternoon for an industrial and institutional tour of the newly established IIT Madras Discovery Campus located in Thaiyur.



Comprehensive Summary of Outcomes and Follow-up Actions

Activities	Immediate Outcomes Achieved	Follow-up Activities
IIT Madras Summer School	• Successful knowledge transfer on AI, DFT, and hydrogen modeling to South Asian researchers. • Initiation of cross-border collaborative research dialogues.	• Research Stay: One of the PhD students, Mr. Rajaramanan begins a minimum 4-week analytical research stay at IIT Madras under Dr. Raguram's supervision.
Anna University Engagement	• Strategic alignment on computational physics and environmental technologies.	• Research Stay: One of the PhD students, Ms. Chapa transitions to Anna University for a few research stay under Dr. R. Vidya's supervision.
SRM University Visit	• Established mutual intent to collaborate trilaterally with HVL and the University of Jaffna.	• Infrastructure Access: SRM University is committed to allowing students from our university to conduct material measurements at reduced fees.
Alagappa University Workshop	• Joint audit of Science Campus analytical instrumentation. • Structuring of credit-transfer programs with European universities.	• Research Stay: One of the MPhil students, Ms. Harini will undertake an upcoming technical research stay at Alagappa University. • Finalizing financial pathways for bilateral student-faculty exchanges.
AMIRTH University	• Establish contact with Prof. Sudip's group at the Dept. of Physics, AMIRTHA	• Research Stay: One of the PhD students, Mr. Rajaramanan will do a few lab works for a few days at the Dept. of Physics, AMIRTHA University.
Coimbatore Institute of Technology (CIT)	• Significantly strengthened long-term institutional research collaboration.	• Student Mobility Framework: The CIT administration has expressed its willingness to broaden its partnership with our university beyond energy and healthcare applications by establishing a fully supported student mobility initiative. • Undergraduate Cohorts: CIT is prepared to accommodate a substantial number of undergraduate students, providing complimentary hostel accommodation and meals for a few weeks. Students would, however, be required to cover their local and international travel expenses. • Postgraduate Mobility: CIT will continue to host postgraduate students for fully integrated short-term research placements, thereby facilitating collaborative research and academic exchange.
AMCEHA 2026 Conference (CIT)	• Gathering of 60+ institutions and 250+ original research papers. • Execution of the Prototype Innovation Showcase evaluating 17 new technologies.	• Dissemination: Publication of selected original conference papers across >5 high-impact indexed journals including, https://link.springer.com/collections/fidbccgbeg. • AMCEHA 2027: Launching the official Call for Abstracts next month via hrcet.jfn.ac.lk for the 2027 conference in Jaffna and Kandy.

P. Ravirajan, Coordinator/HRNCET Project and Senior Professor Physics (<https://hrcet.jfn.ac.lk/>)