



INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS FOR CLEAN ENERGY AND HEALTH APPLICATIONS (AMCEHA 2026)

June 3-5, 2026



PROGRAMME SCHEDULE

DATE	TIME	PROGRAMME		
03.06.2026 Wednesday (Day 1)	08.30 to 09.30 am	Registration		
	09.30 to 11.00 am	Inauguration VENUE: Auditorium, Coimbatore Institute of Technology (CIT)		
	11.00 to 11.30 pm	Tea Break		
	11.30 to 01.00 pm	ROUND TABLE CONCLAVE (TLC Building)	<i>Session Chairs: Dr. Velaug Myrseth Oltedal & Dr. Emma Panzi Mukhokosi</i> Plenary Talk I (<i>Conference Hall - Library Block</i>) Speaker: Dr. Raguram Arjunan , President at SEPA, Founder & MD at Cares Renewables & Cares Academy Title of talk: Real time research opportunities in solar photovoltaic systems Plenary Talk II Speaker: Prof. David McIlroy , Oklahoma State University, USA Title of talk: <i>Plasmonics-by-wire – Gold on Silicon Mesostructures for Electrical Modulation of Surface Plasmon Polaritons</i>	
	01.00 to 02.00 pm	LUNCH BREAK		
	02.00 to 03.00 pm	PANEL DISCUSSION (<i>Conference Hall - Library Block</i>) Chair: Prof. Dhayalan Velauthapillai		
	03.00 to 04.00 pm	INNOVATION SHOWCASE & Tea Break (<i>TLC Building</i>)		
	04.00 to 04.20 pm	<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
		Modelling, Simulation & AI	Energy	Health
		<i>Chair: Dr. Vidya Ravindran</i> Invited talk - I Speaker: Prof. Yngve Lamo <i>HVL, Norway</i> Title of talk: <i>Cross disciplinary research in Digital Health</i>	<i>Chair: Dr. A. Arun</i> Invited talk - II Speaker: Prof. Raghuram Chetty <i>IIT Madras, India</i> Title of talk: Electrochemical Synthesis of Nitrogen-Doped Graphene for Durable PEM Fuel Cell Catalysts	<i>Chair: Dr. J. Annaraj</i> Invited talk - III Speaker: Dr. S. Balakumar <i>University of Madras, India</i> Title of talk: Design and Development of Bioinspired Multifunctional Composite Biomaterials for Enhanced Wound Healing and Bone Tissue Regeneration
04.20 to 05.00 pm	RAPID FIRE PRESENTATIONS			
	<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>	
	MS 102 -104, HL 131 - 134	HD 6 – 9, SLR 19 – 22	HL 136 - 144	

Date	Time	PROGRAMME		
04.06.2026 Thursday (Day 2) FN	09.00 to 09.30 am	<i>Session Chairs: Prof. P. Ravirajan & Prof. N. Muthukumarasamy</i> Plenary Talk III (<i>Conference Hall - Library Block</i>) Speaker: Yongseok Jun , Korea University, South Korea Title of talk: <i>Transparent Solar Windows and MXene-Based Green Hydrogen Production for Net-Zero Energy Systems</i>		
		INVITED TALKS		
		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
		Modelling, Simulation & AI	Hydrogen	Health
	09.30 to 09.50 am	<i>Session Chairs: Prof. Yngve Lamo & Dr. R. Vidya</i> Invited talk - IV Speaker: Prof. Talal Rahman HVL Norway Title of talk: <i>Scalable Schwarz Pre-conditioners for Multiscale Problems with Highly Varying Coefficients</i>	<i>Session Chair: Prof. Raghuram Chetty & Dr. C. Viswanathan</i> Invited talk - V Speaker: Dr. Velaug Myrseth Oltedal HVL, Norway Title of talk: <i>A techno-economical study of hydrogen production from trapped Hydropower</i>	<i>Session Chair: Dr. Durga Lakshmi</i> Invited talk - VI Speaker: Prof. R.M. Gamini Rajapakse University of Peradeniya, SriLanka Title of talk: <i>Unseen Contaminants, Unfinished Stories: Radionuclides in Water after Nuclear Catastrophe</i>
	09.50 to 10.10 am	Invited talk - VII Speaker: Jonathan Økland Torstensen HVL, Norway Title of talk: <i>Transport in rotating PEM electrolyzers</i>	Invited talk – VIII Speaker: Dr. Yulia Arinicheva Skåtun HVL, Norway Title of talk: <i>Methanol- and Ammonia-Fueled Fuel Cell Systems for Maritime Applications</i>	Invited talk - IX Speaker: Prof. Senthil Murugan Ganapathy University of Southampton, UK Title of talk: <i>AI-Enhanced Vibrational Spectroscopy for Rapid Point-of-Care Biomedical Sensing</i>
	10.10 to 10.30am	Tea Break		
		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
	10.30 to 12.00 noon	ORAL PRESENTATIONS		
		MS 93-101	HD 1 – 5, HD 166, ES 23 – 25, AFM 86,	HL 114 – 122, EMT 163 – 165
12.00 noon to 12.30 pm	RAPID FIRE PRESENTATIONS			
	ES 37 - 45	ES 46 - 56	-	
12.30 to 01.30 pm	Lunch Break			

	INVITED TALKS			
	<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>	
04.06.2026 Thursday (Day 2) AN	01.30 to 01.50 pm	Modelling, Simulation: Health <i>Session Chair: Dr. R. Shankar</i> Invited talk - X Speaker: Dr. Vidya Ravindran Anna University, India Title of talk: DFT & ML-driven studies on Materials for Energy and Medical Applications	Advanced Functional Materials <i>Session Chair: Dr. Jonathan Økland Torstensen & Dr. S. Yugeswaran</i> Invited talk - XI Speaker: Prof. Richard John Grant HVL, Norway Title of talk: <i>The Development of a Versatile Solar Laboratory for Educational and Research Purposes</i>	Energy <i>Session Chair: Prof. Yulia Arinicheva Skåtun & Dr. R. Yuvakkumar</i> Invited talk - XII Speaker: Dr. Aravind Kumar Chandiran IIT Madras, India Title of talk: <i>Polarized halide perovskite materials for photoelectrochemical water splitting</i>
	01.50 to 02.10 pm	Invited talk – XIII Speaker: Dr. P. Kumar Alagappa University, India Title of talk: <i>Targeting PI3K/AKT Signaling in Breast Cancer: The Promise of Nano-theranostics</i>	Invited talk - XIV Speaker: Prof. Sudip Kumar Batabyal Amrita Viswa Vidyapeetham, India Title of talk: <i>Water chargeable supercapacitor: Integration of hydrovoltaic with supercapacitor</i>	Invited talk – XV Speaker: Dr. R. Ajay Rakkesh SRM IST, India Title of talk: <i>Safe and Sustainable Energy Storage: Materials and Electrolyte Innovations in Zn-Ion Batteries</i>
		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
	02.10 to 02.40 pm	RAPID FIRE PRESENTATIONS		
		AFM 85 – 92	AFM 77 - 84	EMT 150 – 161
	02.40 to 03.40 pm	ORAL PRESENTATIONS		
		HL 105 -113	AFM 57 – 66	ES 26 – 36
03.40 to 05.00 pm	POSTER PRESENTATIONS* & Tea Break <i>*Venue: CIT – Sandwich Polytechnic College Corridor (Adjacent right to TLC Building)</i>			

Date	Time	PROGRAMME		
05.06.2026 Friday (Day 3) FN	09.30 to 10.00 am	<i>Session Chair: Prof. Richard John Grant & Prof. Gamini Rajapakse</i> Plenary Talk IV (<i>Conference Hall - Library Block</i>) Speaker: Dr. Svein Gunnar Sjøtun , HVL, Norway Title of talk: <i>Responsible Innovation: An introductory talk with examples from western Norway</i>		
	10.00 to 10.30 am	Plenary Talk V Speaker: Prof. Kirthi Tennakone , Georgia State University, USA Title of talk: <i>Excitonic solar energy conversion</i>		
		INVITED TALKS		
		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
		Solar Energy	Advanced Functional Materials	Health
	10.30 to 10.50 am	<i>Session Chair: Dr. R. Balasundara Prabhu</i> Invited talk - XVI Speaker: Prof. G.R.A. Kumara NIFS, Sri Lanka Title of talk: <i>Thick Layer Supercapacitor Battery Packs Based on Activated Coconut Shell Carbon for Sustainable Energy storage</i>	<i>Session Chair: Prof. Sudip Kumar Batabyal & Dr. M. Jeyanthinath</i> Invited talk - XVII Speaker: Dr. Shubra Singh Anna University, India Title of talk: <i>Sustainable Materials: Pathways for Health and Environmental Technologies</i>	<i>Session Chair: Prof. S. Balakumar & Dr. P. Kumar</i> Invited talk - XVIII Speaker: Dr. Renjith P Nair SCTIMST, Thiruvananthapuram Title of talk: <i>Development of Advanced Hemostatic Biomaterials and devices for Clinical Applications</i>
	10.50 to 11.10 am	Invited talk – XIX Speaker: Dr Emma Panzi Mukhokosi Kyambogo University, Uganda Title of talk: <i>Green-Synthesized Metal Oxide Nanostructures for Sustainable Photoelectrochemical Energy Conversion</i>	Invited talk - XX Speaker: Dr. Elena Maria Echeverria Mora Cornell University, USA Title of talk: <i>Molecular Beam Epitaxial Growth of Alkali Antimonide Photocathodes for Electron Sources</i>	Invited talk – XXI Speaker: Dr. D. Durgalakshmi Anna University, India Title of talk: <i>Targeted Theranostics application of Fluorescent Nanoparticles</i>
	11.10 to 11.30am	Tea Break		
	11.30 am to 01.00 pm	ORAL PRESENTATIONS		
		SLR 10 – 18	AFM 67 – 76, EMT 145 – 149	HL 123 – 130, HL 135
01.00 to 02.00 pm	Lunch Break			

		INVITED TALKS		
		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
		Modelling, Simulation & AI	Emerging Materials & Technology	Energy Storage
05.06.2026 Friday (Day 3) AN	02.00 to 02.20 pm	<i>Session Chair: Dr. S. Prasanna</i> Invited talk - XXII Speaker: Dr. Nanthini Nagarajah HVL, Norway Title of talk: <i>Beyond technology: Responsible innovation, collaboration, and the future of renewable energy</i>	<i>Session Chair: Prof. U. Sutharsini</i> Invited talk - XXIII Speaker: Dr. S. Sivagowri HVL, Norway Title of talk: <i>Recent Advances in photocatalytic hydrogen production</i>	<i>Session Chair: Dr. G. Ramalingam & Dr. G. Shanmugavelautham</i> Invited talk - XXIV Speaker: Dr. P. A. Amalraj University of Jaffna, Sri Lanka Title of talk: <i>Overcoming the stability and efficiency bottleneck in wide-bandgap perovskite solar cells</i>
	02.20 to 02.40 pm	Invited talk - XXV Speaker: Dr. B. Ketheesan University of Jaffna, Sri Lanka Title of talk: <i>Feasibility of producing biocement from microalgae for soil improvement</i>	Invited talk - XXVI Speaker: Dr. Nilanthy Balakrishnan Keele University, UK Title of talk: <i>Green Solid Polymer Electrolytes from Natural Rubber for Advanced Capacitor Technologies</i>	Invited talk - XXVII Speaker: Dr. Issac Franklin HVL, Norway Title of talk: <i>State-of-the-art and Design and Fabrication of pouch type Supercapacitors</i>
	02.40 to 3.00 pm	Tea Break		
	03.00 to 04.00 pm	Valedictory Function & Concluding Remarks (<i>Conference Hall - Library Block</i>) (Best Oral & Poster Awards Distribution) (Best Innovation Showcase Awards Distribution)		