



Ahmedabad  
University



sampe

**International Conference**  
on  
**Composite Materials and Technologies**  
**(InCoMat-2026)**

Organised by

**Ahmedabad University**

**Co-Organisers: SSME, (SAC-ISRO), Ahmedabad and SAMPE Global, USA**

**13 – 15 March 2026**

**Inaugural Session Programme**

**Venue: GICT Auditorium, Central Campus, Ahmedabad University**

<b>Time</b>	<b>Event</b>
09:45 – 09:55	Arrival of Guests and Welcome
09:55 – 10:00	Welcome Address by Dr Hemant Chouhan and Dr Nand Kishore Singh, Convenor, InCoMat-2026
10:00 – 10:15	Patron's Address by <b>Prof Pankaj Chandra</b> , Vice Chancellor, Ahmedabad University
10:15 – 10:25	Guest of Honour Defence address by <b>Dr Makarand G. Joshi</b> , Director, R&DE (Engg), DRDO, Pune
10:25 – 10:35	Guest of Honour <b>Indian Army</b> address by <b>Sr Officer</b>
10:35 – 10:50	Chief Guest address by <b>Mr Nilesh M Desai</b> , Director, SAC-ISRO, Ahmedabad
10:50 – 11:00	Guest of Honour Academics address by <b>Prof (Dr) Rajul K Gajjar</b> , Vice Chancellor, Gujarat Technological University, Ahmedabad
11:00 – 11:10	Industry Guest of Honour address by <b>Mr Punit Lalbhai</b> , Vice Chairman of Arvind Limited
11:10 – 11:20	Vote of Thanks, <b>Prof Sunil Kale</b> , Dean, School of Engineering and Applied Science, Ahmedabad University
11:20 – 11:30	Exhibition Inauguration
11:30 – 12:00	High Tea

## International Conference on Composite Materials and Technologies (InCoMat-2026)

Venue: GICT Auditorium, Central Campus, Ahmedabad University

<b>Day 1: 13<sup>th</sup> March 2026</b>			
<b>Talk Type</b>	<b>Speaker</b>	<b>Talk Title</b>	<b>Time</b>
<b>Registration</b>			9:00 – 9:45
<b>Inaugural</b>			9:45-11:30
Exhibition inauguration and high tea			11:30-12:00
Keynote 1	Mr Sammir Sakhare, ISRO	New frontiers in composite materials and technologies	12:00-12:25
Keynote 2	Prof Raj Das, RMIT, Australia	Multiscale failure mechanics and damage modelling in sustainable bio-composites	12:25-12:50
Keynote 3	Prof Naresh Bhatnagar, IIT Delhi	Extreme composites leading to lightest bullet proof jacket for Indian security forces - advanced ballistics for high energy defeat - product realization from an idea to reality	12:50-13:15
<b>Lunch</b>			13:15-14:15
Keynote 4	Prof D Roy Mahapatra, IISc Bangalore	Advanced structural composites - multiscale mechanics-based design and manufacturing	14:15-14:40
Technical Session 1	Mr Ulkesh B Desi, SAC- ISRO	Session chair	
InCoMat-2602	Dr Poonam Lathiya, IISER	Tunable ferrite/epoxy composites for miniaturized RF antennas in biomedical implants	14:40-14:50
InCoMat-2612	Ms Vidushi Dixit	Printable multifunctional nanocomposite filament for EMI shielding applications.	14:50-15:00
InCoMat-2623	Prof Mamta Mainak Saiyad	Radiation-driven ageing of polymer composite: A life-span prediction study	15:00-15:10
InCoMat-2642	Dr Kartikey Shahi	Nanomodified CFRP laminates - enhancing bonded joints by laser texturing	15:10-15:20
<b>Tea</b>			15:20-15:45
Technical Session 2	Prof Vishvesh J Badheka, PDEU, Session Chair	Additive Manufacturing of composite material	15:45-16:00
InCoMat-2641	Prof Shuja Ahmed	Enhancing tensile strength of 3D printed carbon fiber reinforced nylon 6 composite	16:00-16:10
InCoMat-2643	Mr Rajendra Kumar Gupta	Numerical investigation of flexural performance of repaired GFRP composite sandwich beam with hyper-elastic materials as core	16:10-16:20
InCoMat-2650	Mr Sarabjeet Singh	Effect of nano-filler modification on single-lap shear tensile performance of GFRP composites for aircraft repairs	16:20-16:30
Keynote 5	Prof Ratneshwar Jha, Florida Tech, USA	Structural health Monitoring of aerospace composites	16:30-16:55

<b>Day 2: 14<sup>th</sup> March 2026</b>			
<b>Talk Type</b>	<b>Speaker</b>	<b>Talk Title</b>	<b>Time</b>
Keynote 6	Prof Tanmay Basak, IIT Madras	Microwave-assisted material processing: sustainability and energy efficiency	9:30-9:55
Panel Discussion	Future in Composite materials and start-up avenues: Mr Naresh Sharma (Moderator), Dr Ankush Sharma, Mr Jeremy Fritzhand, Mr Prashant Trivedi, Prof Ashwin Patel		9:55-11:00
<b>Tea</b>			11:00-11:20
Keynote 7	Prof Prasant Rawat, IIT Madras	Engineering protective equipment using biomimetic design principles	11:20-11:45
Technical Session 3	Dr Ankush Sharma, ATIRA, Session chair	High-performance fiber reinforced polymer composites for structural applications	11:45-12:00
InCoMat-2635	Mr Manish Kumar	Influence of MWCNT inclusion and void content on the material properties of woven GFRP composites	12:00-12:10
InCoMat-2640	Dr Rushikesh Suresh Ambekar	Performance of machined CFRP laminates with nanomodified dispersion	12:10-12:20
InCoMat-2609	Prof Piyush Gaur	A general SEM image-based dispersion index for quantitative assessment of nanoparticle dispersion in nanocomposites	12:20-12:30
InCoMat-2644	Mr Rajendra Kumar Gupta	Study of fabric draping induced non-parallel discontinuity on compressive strength of bi-directional carbon-epoxy laminate	12:30-12:40
InCoMat-2608	Ms Manya Trivedi	Thermochemical simulation of nanoparticle-enhanced resin systems	12:40-12:50
Sponsored Talk	Mr Sachin Kumar	Bluestar	12:50-12:55
Sponsored Talk	Mr Jayaraj Balasubramanian	Phantom	12:55-13:00
<b>Lunch</b>			13:00-14:00
Keynote 8	Dr Vikas Saxena, Chairman, ARDB, DRDO	Performance-driven materials requirements for safety-critical applications - research opportunities for Academia-Industries-R&D consortiums	14:00-14:25
Technical Session 4	Prof Pramod Bhingole, IITRAM, Session chair	Innovative metallic foams and multi-layer sandwich composites in aerospace and defence	14:25-14:40
InCoMat-2617	Mr Dev Chaphekar	Design and optimization of stacking sequence in hybrid composite laminates	14:40-14:50
InCoMat-2620	Prof Bimal Das	Micro-mechanical of unidirectional glass fibre reinforced composites under tensile loading	14:50-15:00
InCoMat-2626	Dr Anand Gaurav	Evaluation of deep learning – based model to detect multi-specification in 3-point bending fatigue-failed GFRP laminate	15:00-15:10
InCoMat-2632	Dr Raveendra Kumar Saroj	Assessment of thermal-structural performance of CFRP and Cork-based composites for re-entry space vehicles	15:10-15:20
<b>Tea</b>			15:20-15:35

Technical Session 5	Prof Piyush Gaur, UPES	Nanomaterials for advanced vehicle armour from lightweight protection to multifunctional survivability	15:35-15:50
InCoMat-2601	Mr Abhishek Prajapati	Ballistic performance and failure mechanisms of monolithic boron carbide composite panels against high velocity armour piercing incendiary projectile	15:50-16:00
InCoMat-2636	Mr Amit Chaudhary	A numerical investigation of layup effects on failure in open hole compression laminates	16:00-16:10
InCoMat-2645	Mr Sushant Bhatt	Investigating temperature-induced porosity distribution in carbon-phenolic composites	16:10-16:20
InCoMat-2630	Mr D. R. Panchal	Analytical and experimental evaluation of GFRP reinforced concrete columns subjected to axial loading	16:20-16:30
Keynote 9	Prof Behrad Koohbor, Rowan University, USA	High-strain-rate deformation behavior of novel 3D-printed auxetic structures	16:30-16:55
Keynote 10	Prof Aswani Bandaru, UL Ireland	Automated tape placement: enabling scalable composite manufacturing in aerospace	16:55-17:20
<b>Gala Dinner</b>			19:30-21:00

**Day 3: 15<sup>th</sup> March 2026**

<b>Talk Type</b>	<b>Speaker</b>	<b>Talk Title</b>	<b>Time</b>
Keynote 11	Prof Inderdeep Singh, IIT Roorkee	Additive and subtractive manufacturing of composite materials: Issues, progress and the way ahead	9:30-9:55
Keynote 12	Prof Balasivanandha Prabu Shanmugavel, Anna Univ.	Development of eco-friendly sustainable composite materials	9:55-10:20
Technical Session 6	Mr Vasant Unchil	Phenolic fire-retardant composites	10:20-10:35
InCoMat-2622	Prof Hemant Chouhan	Ultra-light composite materials for structural, repeated-impact, and ballistic performance in radom and drone applications	10:35-10:45
InCoMat-2637	Mr Rajesh Punia	Sustainable nylon-based multi-scale composite laminates for next-generation EV battery Pack Protection	10:45-10:55
InCoMat-2603	Mr Roshan Patil	A halogen-free approach to flame retardancy in unsaturated polyester-based GFRP composites	10:55-11:05
Keynote 13	Prof D Sangeetha, ANNA University	Advancements in lightweight polymer composite materials for enhanced sustainability	11:20-11:45
Technical Session 7	Dr Partha Bairi, ATIRA, Session chair		
InCoMat-2618	Mr Praveen Kumar	Biomechanical evaluation of surrogate head forms with ballistic helmets under high-velocity impact	11:45-11:55
InCoMat-2633	Mr Vishwas Kesarwani	Analytical and experimental evaluation of GFRP reinforced concrete columns subjected to axial loading	11:55-12:05
		Undergrad student participation	12:05-12:20
		Valedictory Ceremony	12:20-13:00
		Lunch	13:00-14:00