

PRESS RELEASE

June 2026 – 01/2026

PLEIADES – Registration Open for the PLEIADES Webinar on Vitrimers

Researchers, industry professionals, and aviation stakeholders are invited to participate in the upcoming **PLEIADES webinar**, taking place on **17 June 2026 from 13:00 – 14:30 BST (CET 14:00 – 15:30)**.

The EU-funded **PLEIADES** project brings together cutting-edge technologies and multidisciplinary expertise to advance the use of composite aerostructures and support the digital transformation of the aviation sector. The project focuses on the development and characterization of novel composite materials, the automation of induction welding processes for composite structures, integrated sensing technologies, and innovative approaches to disassembly, repair, and maintenance.

Webinar Topic: Development of New Matrix Systems – Current Status of Vitrimer Development

The webinar will provide insights into the latest advances in vitrimer research, a promising class of materials that combines the mechanical performance of conventional thermosets with the recyclability and reparability typically associated with thermoplastics.

The program includes the following presentations:

- **Powder Infusion Processing of Benzoxazine-Based Vitrimer Carbon Fibre Composites: Challenges, Process Optimisation, and Characterisation**
Prithivi Boylla, Centre for Materials, FEAS, Cranfield University
- **Benzoxazine-Based Vitrimers for Reprocessable Aerospace Composite Applications**
Daniel Preston, Centre for Materials, FEAS, Cranfield University
- **Development of Advanced Multi-physics Model for Induction Welding of Thermoplastic and Vitrimer Carbon Fibre Composites**
Dr. Israr Uddin, Brunel Composite Centre, Brunel University London

The presentations will highlight recent developments in vitrimer-based resin systems for aerospace applications. These materials offer significant potential to improve the lifecycle performance of composite structures, facilitate repair processes, and reduce material waste.

The webinar is free of charge and will be of particular interest to professionals from the aerospace industry, researchers working on advanced composite materials, and stakeholders interested in sustainable and digital technologies for next-generation aircraft structures.

Additional information and registration can be found here:

<https://www.twi-global.com/media-and-events/events-diary/pleiades-development-of-new-matrix-systems>

For media inquiries, please contact: info@pleiades-project.eu

About PLEIADES

PLEIADES – Advancing Aerospace Composites through Induction Welding and New Vitrimeric Formulations Enhanced by Integrated Photonic Sensors, Providing Data to Digital Supply Chain, SHM, Maintenance – is an EU-funded project bringing together different disciplines and key technologies that will contribute to advancing further composite aerostructures and promote the digital transformation in aviation.