



8. SPECIAL SESSIONS

You can submit an abstract for one of the 33 conference special sessions that have been submitted by the following co-organizers :

8.1 Additive Fabrication of composite materials

Organizers:

- Antoine Le Duigou, UBS IRDL (France)
- Ugo Lafont, ESA ESTEC (France)

8.2 Bonding and bonding repairs

Organizer:

- Thomas Kruse-Strack, Airbus (Germany)

8.3 Composites for Hydrogen Storage

Organizer:

- Julien van Campen, TU Delft (The Netherlands)

8.4 Computed tomography

Organizers:

- Yentl Swolfs, KU Leuven (Belgium)
- Mahoor Mehdikhani, KU Leuven (Belgium)

8.5 Continuous-discontinuous fiber-reinforced polymers (CoDiCoFRP)

Organizers:

- Luise Kärger, KIT FAST (Germany)
- Loredana Kehrer, KIT ITM (Germany)
- Andrew Hrymak, UWO (Canada)
- Kay Weidenmann, Uni Augsburg (Germany)
- Thomas Böhlke, KIT ITM (Germany)

8.6 Data-driven approaches for composite characterization, monitoring, and accelerated development

Organizers:

- Caroline Petiot, Airbus (France)
- Anaële Lefeuvre, Airbus (France)
- Adrien Leygue, Centrale Nantes (France)

8.7 Delamination prediction and mitigation in laminated structures

Organizers:

- Gilles Lubineau, KAUST / MCEM (Saudi Arabia)

- Sofia Teixeira de Freitas, IST/IDMEC (Portugal)
- Ahmed Wagih, KAUST/MCEM (Saudi Arabia)
- Marco Alfano, U. Waterloo (Canada)

8.8 Digital twinning: the role of process models, control, and artificial intelligence on composite materials

Organizer:

- Nuno Correia, INEGI (Portugal)

8.9 Exploring the frontiers: from novel observations to paradigm shifting applications of composites

Organizers:

- António Marques, LAETA/INEGI/FEUP (Portugal)
- Nuno Correia, LAETA/INEGI (Portugal)

8.10 Fatigue assessment of composite materials and structures: from coupon to full scale

Organizers:

- John-Alan Pascoe, Delft University of Technology (The Netherlands)
- Yasmine Mosleh, Delft University of Technology (The Netherlands)
- Matias Lasen Andrade, University of Twente (The Netherlands)
- Jon Taylor, National Composites Centre (UK)
- Francisco Monticeli, Delft University of Technology (The Netherlands)
- Anastasios Vassilopoulos, EPFL (Switzerland)
- Paolo Andrea Carraro - University of Padova (Italy)
- Marino Quaresimin - University of Padova (Italy)



8.11 Fiber Suspension Flows

Organizers:

- Suresh Advani, University of Delaware (USA)
- Julien Férec, Univ. Bretagne Sud (France)

8.12 History of Composites

Organizers:

- Ignaas Verpoest, Composite Materials Group, KU Leuven (Belgium)
- Stepan Lomov, Composite Materials Group, KU Leuven (Belgium)
- Yentl Swolfs, Composite Materials Group, KU Leuven (Belgium)
- Mahoor Mehdikhani, Composite Materials Group, KU Leuven (Belgium)

8.13 Hybrid-Molding Technologies for Thermoplastic Composites

Organizer:

- Thomas Neumeyer, Leibniz-Institut für Verbundwerkstoffe, Kaiserslautern (Germany)

8.14 Image-based analysis of composites: first steps towards benchmarking

Organizers:

- James Kratz, University of Bristol (UK)
- Baris Caglar, TU Delft (The Netherlands)
- Guillaume Broggi, TU Delft (The Netherlands)

8.15 Industrializing Variable Stiffness Composites

Organizers:

- Julien van Campen, TU Delft (The Netherlands)

8.16 Integrated testing and modelling of composite structures – towards virtual testing and certification by analysis

Organizers:

- Ole Thomsen, Bristol Composites Institute (BCI), University of Bristol (UK)
- Stephen Hallett, Bristol Composites Institute (BCI), University of Bristol (UK)
- Janice Barton, Bristol Composites Institute (BCI), University of Bristol (UK)
- Richard Butler, University of Bath (UK)
- Andrew Rhead, University of Bath (UK)

8.17 Long discontinuous fibre composites

Organizers:

- Connie Qian, University of Warwick (UK)
- Ton Peijs, University of Warwick (UK)

8.18 Manufacturing defects in composite materials and structures

Organizers:

- Dmytro Vasiukov, IMT Nord Europe (France)
- Chung Hae Park, IMT Nord Europe (France)
- Jan Ivens, KU Leuven (Belgium)
- Stepan Lomov, KU Leuven (Belgium)

8.19 Modelling material flow and other mechanisms in composites manufacture

Organizers:

- Stephen Hallett, University of Bristol (UK)
- Jonathan Belnoue, University of Bristol (UK)
- Nahiene Hamila, Dupuy De Lôme Research Institute (France)

8.20 Multifunctional Composites for Energy Applications

Organizers:

- Emile S Greenhalgh, Imperial College London (UK)
- Leif Asp, Chalmers University (Sweden)
- Dan Zenkert, KTH (Sweden)

8.21 Multi-physics Computational modelling of Advanced Composite Structures

Organizer:

- Dr. Maedeh Amirpour, The University of Auckland (New Zealand)

8.22 Online process monitoring and controlling through digital twin approaches

Organizer:

- Philippe Le Bot, IRT Jules Verne (France)

8.23 Permeability of fibrous reinforcements for resin flow

Organizers:

- David May, Leibniz-Institut für Verbundwerkstoffe GmbH (Germany)
- Elena Syerko, Ecole Centrale de Nantes (France)



8.24 Progress towards industrializing Sustainable Composites

Organizers:

- Theodosia Kourkoutsaki, Institute for Textile Technology Aachen (Germany)
- Christoph Greb, Institute for Textile Technology Aachen (Germany)
- Christian Weimer, AIRBUS Defence and Space GmbH (Germany)

8.25 Reuse, Remanufacturing and Recycling: Boosting the Circularity of Fiber-Reinforced Composite Materials

Organizers:

- Gianmarco Griffini, Politecnico di Milano (Italy)
- Konstantinos Tserpes, University of Patras (Greece)

8.26 Short Fibre Reinforced Polymers

Organizers:

- Andrea Bernasconi, Politecnico di Milano (Italy)
- Gerald Pinter, Montanuniversität Leoben (Austria)
- Kim Kose, Inpro mbH (Germany)

8.27 Solid Resins in Composite Materials

Organizers:

- David May, Leibniz-Institut für Verbundwerkstoffe GmbH (Germany)
- Colin Robert, University of Sheffield (UK)

8.28 Testing at Cryogenic Temperatures

Organizers:

- Stefanos Giannis, Science Lead – Advanced Engineering Materials, National Physical Laboratory, Visiting Professor, University of Surrey (UK)
- Huw Edwards, Research Engineer – National Composites Centre, EngD Candidate – University of Bristol (UK)

8.29 The role of composites in electrification

Organizers:

- Raquel Santos, INEGI and LAETA (Portugal)
- Nuno Correia, INEGI and LAETA (Portugal)

8.30 Thermoplastic Composites Material and Process : Industrial applications

Organizers:

- Suzanne Laik, CETIM (France)
- Damien Guillon, CETIM (France)

8.31 Transition toward high performance plant fibre composite: sourcing, process, applications and bottlenecks

Organizers:

- Johnny Beaugrand, INRAE Nantes (France)
- Jörg Müssig, HSB, Bremen (Germany)
- Alain Bourmaud, UBS, Lorient (France)

8.32 Understanding and improving longitudinal compressive strength

Organizers:

- Silvestre Pinho, Imperial College London (UK)
- Richard Trask, University of Bristol (UK)
- Milo Shaffer, Imperial College London (UK)

8.33 Vitrimers matrix composites

Organizers:

- Philippe Olivier, ICA, UMR CNRS 5312, Université Toulouse 3 (France)
- Mathias Destarac, IRT Saint Exupéry, Toulouse (France)
- Andreas Klingler, Institute for Composite Materials (IVW), Kaiserslautern (Germany)
- Markus Wolfahrt, Polymer Competence Center Leoben (PCCL), Leoben (Austria)