



SPECIAL SESSIONS

You can submit an abstract to one of the selected ECCM22 Special Sessions that have been submitted by the following co-organizers:

1. Delaminations and debonding in composite materials and structures

Organizers:

- Luca Michele Martulli (Politecnico di Milano, Italy)
- Marco Alfano (University of Modena and Reggio Emilia, Italy)
- Gilles Lubineau (King Abdullah University of Science and Technology, Saudi Arabia)

2. Additive manufacturing (3D/4D printing, AFP) for advanced composites

Organizers:

- Antoine Le Duigou (University of South Brittany, France)
- Ugo Lafont (ESTEC - European Space Agency, The Netherlands)
- Masahito Ueda (Nihon University, Japan)

3. Power Ultrasonics in Processing and Joining of Composites and Multi-Materials

Organizer:

- Moritz Liesegang (RPTU Rheinland-Pfälzische Technische Universität Kaiserslautern, Germany)

4. Self-healing polymer composites – A perspective on design, mass-manufacturability and techno-economic feasibility for structural applications

Organizers:

- Aaditya Suratkar (University of Augsburg, Germany)
- Kay Weidenmann (University of Augsburg, Germany)

5. Impact dynamics of composites

Organizers:

- Dayou Ma (Politecnico di Milano, Italy)
- Cuong Ha Minh (Université Paris-Saclay, France)
- Chao Zhang (Northwestern Polytechnical University, China)

6. CirKle - Recycling materials for aircraft cabin components

Organizers:

- Souvik Chakraborty (German Aerospace Center, DLR, Germany)
- Jens Bachmann (German Aerospace Center, DLR, Germany)
- Cedric Tschentscher (Clausthal University of Technology, Germany)
- Katharina Haag (Fraunhofer Institute for Manufacturing Technology and Advanced Materials, Germany)
- Adrian Wolf (Fraunhofer Institute for Manufacturing Technology and Advanced Materials, Germany)
- Alexander Stendel (SAFRAN Cabins Germany GmbH, Germany)
- Ralf Zerlik (SAFRAN Cabins Germany GmbH, Germany)
- Sayed Mahfuz Ahmed (SAFRAN Cabins Germany GmbH, Germany)

7. Cryogenic Testing and Material Characterisation

Organizers:

- Stefanos Giannis (National Physical Laboratory, United Kingdom)
- Adrew Rhead (University of Bath, United Kingdom)

8. Experimentation and Modelling of Composite Materials and Structures under Dynamic Loading and Environmental Conditions

Organizers:

- Yanhong Chen (Harbin Institute of Technology, China)
- Gustavo Quino Quispe (Imperial College London, United Kingdom)
- Antonio Pellegrino (University of Bath, United Kingdom)
- Karthik Ram Ramakrishnan (University of Bristol, United Kingdom)
- Ziwen Xu (Harbin Institute of Technology, China)



9. Methods and tools to support the certification by analysis of composite structures

Organizers:

- Stephanie Miot (IRT Saint Exupery, France)
- Ludovic Barrière (IRT Saint Exupery, France)
- Albertino Arterio (University of Porto / INEGI, Portugal)
- Albert Turon (University of Girona / AMADE, Spain)

10. Understanding and improving longitudinal compressive strength

Organizer:

- Silvestre Pinho (Imperial College London, United Kingdom)

Co-organizers:

- Milo Shaffer (Imperial College London, United Kingdom)
- Richard Trask (University of Bristol, United Kingdom)
- Frederic Laurin (ONERA - The French Aerospace Lab, France)
- Lars Mikkelsen (Technical University of Denmark, Denmark)
- David Anthony (Imperial College London, United Kingdom)

11. Advanced Composite Materials and Structures: Multifunctional Design, Damage Diagnostics, Testing, and Modeling

Organizers:

- Xi Li (Politecnico di Milano, Italy)
- Rosemere de Araujo Alves Lima (Universidade de Lisboa, Portugal)
- Ioannis Katsivalis (University of Bath, United Kingdom)

12. Long Discontinuous Fibre Composites: Processing, Microstructure, Properties and Performance

Organizers:

- Connie Qian (University of Sheffield, United Kingdom)
- Miro Duhovic (Leibniz-Institut für Verbundwerkstoffe (IVW) GmbH, Germany)

13. Digital Twins and AI for Composite Manufacturing: Modelling, Monitoring and Control

Organizers:

- Baris Caglar (TU Delft, The Netherlands)
- Iryna Tretiak (University of Bristol, United Kingdom)

14. Session Honoring Mostafa Abdalla

Organizer:

- Daniël Peeters (TU Delft, The Netherlands)

15. AI and Mechanics for Composite Design, Optimisation, and Digital Twins

Organizers:

- Wei Tan (Queen Mary University of London, United Kingdom)
- Carlos Gonzalez (IMDEA Material Institute, Spain)

16. Characterisation of recycled composites

Organizer:

- Ana Yong (NPL, United Kingdom)

17. Image-based analysis of composite features

Organizers:

- Baris Caglar (TU Delft, The Netherlands)
- James Kratz (University of Bristol, United Kingdom)

18. Composite Materials for Hydrogen Economy

Organizers:

- Lukasz Figiel (University of Warwick, United Kingdom)
- Maria Grazia De Angelis (University of Edinburgh, United Kingdom)
- Marcus Walls-Bruck (NCC, United Kingdom)

19. Fatigue and Damage Mechanics of composites and composite structures

Organizer:

- Marino Quaresimin (University of Padova, Italy)
- Paolo Andrea Carraro (University of Padova, Italy)
- Lucio Maragoni (University of Padova, Italy)

20. History of composites

Organizer:

- Ignaas Verpoest (KU Leuven, Belgium)

Co-organizers:

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

21. Computed tomography

Organizer:

- Yentl Swolfs (KU Leuven, Belgium)

Co-organizers:

- Christian Breite (KU Leuven, Belgium)
- Mahoor Mehdikhani (KU Leuven, Belgium)



22. Toroidal Propellers for Efficient and Sustainable Aviation - The TorPropel project

Organizer:

- Alkis Paipetis (University of Ioannina, Greece)

23. Advanced composites under extreme conditions

Organizer:

- Kamran Khan (Khalifa University of Science and Technology, United Arab Emirates)
- Sanan Khan (United Arab Emirates University, UAE)

24. Additive manufacturing of Composites for lightweight structural applications

Organizer:

- Kamran Khan (Khalifa University of Science and Technology, United Arab Emirates)

25. Sustainable Composites Engineering: Innovations from a Doctoral Training Centre

Organizers:

- Janice Barton (University of Bristol, United Kingdom)
- Lee Harper (University of Nottingham, United Kingdom)

26. EcoComposites Cluster - Sustainability of composites in the transportation sector

Organizers:

- Mehdi Marin (IRT Jules Verne, France)
- Costas Charitidis (National Technical University of Athens, Greece)
- Kate Trompeta (National Technical University of Athens, Greece)

27. Nature-Inspired Composites: From Natural Fibres to Biomimetic Structures

Organizer:

- Carlos Fuentes (Luxembourg Institute of Science and Technology, Luxembourg)

28. Intelligent Production Technologies for Load-Dedicated Graded Polymer Composite Structures

Organizer:

- Petar Peric (Institute for Plastics Processing, Germany)

29. Multi matrix composites – design principles and processing technologies

Organizers:

- Maik Gude (TUD Dresden University of Technology)

- Michael Müller-Pabel (TUD Dresden University of Technology)
- Markus Stommel (Leibniz Institut für Polymerforschung, Dresden)
- Axel Spickenheuer (Leibniz Institut für Polymerforschung, Dresden)

30. Variable-stiffness composites

Organizers:

- Humberto Almeida (LUT University, Finland)
- Dresden University of Technology)
- Daniel Peters (TU Delft, The Netherlands)

31. Novel (multi-)functional composite materials

Organizer:

- Nuno Correia (INEGI, Portugal)

32. Durability of polymers and fibre reinforced polymer composites

- José Sena-Cruz (University of Minho, Portugal)
- Sotirios Grammatikos (NTNU, Norway)

33. Exploring challenges: from novel observations to paradigm shifting applications of composites

- António Torres Marques (University of Porto, Portugal)
- Nuno Correia (University of Porto, Portugal)