

ICCS29 – 29th International Conference on Composite Structures
Faculty of Architecture, University of Cagliari, Italy - 22-26 June 2026

Special Session

Recent Advancements and Emerging Challenges in Composite Pressure Vessels Design and Manufacturing

Organisers:

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Short Description and Aim

Pressure vessels are widely used across a broad range of applications in many industries, including potential applications for hydrogen storage. For mobile applications, weight is an important design parameter that should be minimised while considering the safety and the optimum use of space where the pressure vessel should be placed. Composite pressure vessels can provide a good solution for novel, efficient, lightweight pressure vessels. However, many challenges exist in the design, numerical methods, manufacturing, and maintenance of composite pressure vessels.

This session welcomes contributions addressing design, modelling, and experimental aspects, as well as recent advancements in composite pressure vessels. The session aims to bring together researchers and industry experts from around the world who are working on different aspects of the design, manufacturing, and maintenance of pressure vessels.