

ICCS27 – 27th International Conference on Composite Structures

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University of Bologna, Italy

Special Session

Recent Developments and Challenges in Design and Manufacturing Composite Pressure
Vessels

Organisers:

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Short Description and Aim

This session focuses on design and manufacturing challenges in composite pressure vessels. Pressure vessels are widely used in a broad range of applications in many industries, including possible use for hydrogen storage. For mobile applications, the 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, manufacturing, numerical methods, and maintenance of composite pressure vessels. The session is open to design, experimental and modelling aspects and recent developments in composite pressure vessels.