



17<sup>th</sup> International Conference on Advanced  
Computational Engineering and Experimenting  
BARCELONA, 1-5 July 2024  
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## SHORT BIO:

**Sylvie Castagnet** is a CNRS Research Director at Institut Pprime (Poitiers, France). From 2017 to 2022, she headed the Mechanics of Materials group of the laboratory (28 researchers; 50 post-docs and PhD students; 15 administrative & technical staff). Her area of expertise is mechanics of polymers, with approaches mixing experimental developments and modeling, and a special interest in durability issues (slow crack growth, creep, fatigue). Most of these works aim at elucidating the underlying microstructure-properties relationships, especially in semi-crystalline polymers. For 15 years now, a large part of her activities deals with the impact of several types of environments on polymer performances, among which hyperbaric gaseous hydrogen. Contributions address both industrial and societal concerns and challenges. She led and took part to many international and national collaborative projects, with academic labs and companies. In the field of mechanics of polymers under high-pressure hydrogen environment, she has been collaborating with several international labs, among which Hydrogenius laboratory (Japan) since 2011.