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# Insights into Future Propulsion Technologies

**James Hunt, BSc**

Future Propulsion Lead, Advanced Manufacturing Research Centre (AMRC),  
University of Sheffield

**Date: Thursday, 23 October 2025, 18:00**

**Location: HAW Hamburg, Berliner Tor 5, Hörsaal 01.10 (in-person only!)**

The aviation sector has set ambitious targets to achieve net zero flight by 2050, there are several legislative, operational and technological pathways that will contribute towards this. Some of the greatest challenges are faced in developing solutions that will directly reduce the emissions of the aircraft. This presentation will provide some insights into what technologies are being explored for future propulsion systems based on new and alternative fuels such as battery, hydrogen and sustainable aviation fuels (SAF). It will explain how the incumbent primes are adopting different approaches to decarbonisation, while emerging companies are seeking to carve out niches with their disruptive technologies and business models.



Aerospace Technology Institute (ATI), FlyZero, © ATI

*James has over 25 years of experience in applied research in industry and academia, specializing in materials and manufacturing. After a decade in the UK steel industry, he joined the University of Sheffield to advance metals processing, including additive manufacturing and electron beam welding. As Future Propulsion Lead at AMRC, he works with industrial partners on zero-emission transport technologies. He authored a report on hydrogen storage for the ATI's FlyZero programme and collaborates with ATI's Hydrogen Capability Network on hydrogen aircraft adoption.*

DGLR / HAW Prof. Dr.-Ing. Dieter Scholz  
RAeS Richard Sanderson

Tel.: 040 42875 8825  
Tel.: 04167 92012

[info@ProfScholz.de](mailto:info@ProfScholz.de)  
[events@raes-hamburg.de](mailto:events@raes-hamburg.de)



<https://hamburg.dglr.de>  
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