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Type: **Invited talk**

Acoustic waves propagation, generation and abatement: a jolly mix of fluid and solid applications

Thursday 18 September 2025 12:30 (25 minutes)

This presentation will give an overview of ongoing research into acoustic wave behaviour in both fluids and solids applications, highlighting their generation, propagation, and mitigation. From low-order modelling of aero- and hydroacoustic instabilities in piping systems, sonic cavitation and bubble dynamics to acoustic MEMS sensors, we will address the challenges of predicting and controlling acoustic behaviour in complex systems, through a combination of experimental techniques and modelling approaches. The talk will highlight the interplay between fluid dynamics, structural mechanics, and acoustics in engineering design.

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Session Classification: Physics and Profession / Invited talks

Track Classification: Other topic/subfield (please comment in the box below)