

Università degli Studi di Udine

Dottorato di Ricerca in Scienze dell'Ingegneria Energetica e Ambientale



Seminari del Corso di Dottorato

Numerical reproduction of cavitating flows and the evaluation of hydroacoustic noise

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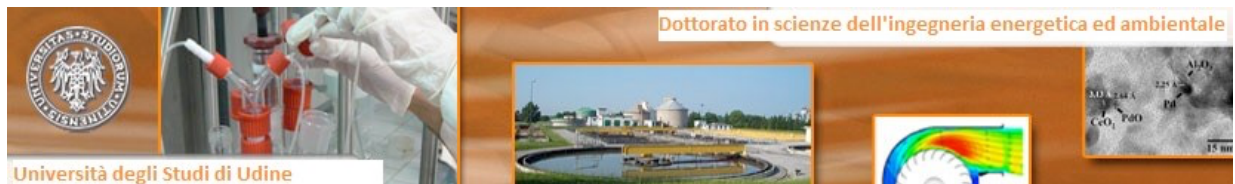
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Mercoledì 19 Ottobre 2022, ore 15:30

Sala Riunioni Verde (SR 1, L1-0F-NF)

Abstract: The talk concerns a possible way of modelling a cavitating flow, considering the importance of microscopic bubble dynamics within a macroscopic description of the air/water mixture. Also, the most recent developments in the field of the Hydroacoustics achieved by the research group of the Department of Engineering and Architecture of the Trieste University are illustrated, with particular regard to noise generation by naval propellers and propagation in ocean waveguides.

CV: Marta Cianferra got the M.Sc in Mathematics at the La Sapienza University of Rome (2014) and the Ph.D in Earth Science and Fluid Mechanics at the Trieste University (2018). Presently is Assistant Professor (RTDa) in Hydraulics at the Engineering and Architecture Department of the Trieste University. Her scientific interests belong to the Computational Fluid Dynamics field and concerns mainly flow modelling through Large-Eddy Simulations, Hydroacoustics and Multiphase flows, with a focus on naval and hydraulic applications.



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