

Colloquium Thermo- and Fluid Dynamics

Bubbles and Microfluidics: solving societal problems

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The connecting line in my work is controlling cavitation, the formation and collapse of bubbles. I will give an overview of my journey that started. Taming Acoustic Cavitation, showing how microfluidics can improve reproducibility and energy efficiency in sonochemistry. With similar tricks, I will share recent results from our work at the Netherlands Center for Multiscale Catalytic Energy Conversion (MCEC), where we are learning unexplored aspects of electrochemistry. To conclude, I will share our experiences in developing the Bubble Gun, a novel needle-free injection technology based on laser-induced cavitation for small volume delivering in the superficial layers



Date: Wednesday, 1 June 2022
Time: 16:15 - 17:15h
Place: ETH Zurich, ML H 44
Host: Prof. Outi Supponen, IFD