

ULTRHAS IN A NUTSHELL

The aim of the EU funded ULTRHAS project is to reveal the health threats posed by nanoparticles from different transport sources and provide guidance for policy development to improve air quality and health.

Test campaigns will be carried out (WP 2) to investigate how nanoparticles affect human cells (WP 3 and 4). The first campaign concentrates on emissions from high-power engines, the second on non-exhaust emissions, and the third on light-duty vehicles. Validation studies will be carried out to confirm biological effects (WP 5). Data from all test campaigns and validation studies will be integrated, analysed, and tested to identify exactly what is causing negative effects in humans (WP 6). Health impact assessment, strategy and policy recommendations will be developed (WP 7), and eventually the results will be communicated to provide policy makers with a better basis for future decisions on transport related regulations (WP 8).

Read more on www.ultrhas.eu and follow ULTRHAS on Twitter and LinkedIn to stay updated and receive our next newsletters!



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ULTRHAS

PROJECT NEWS

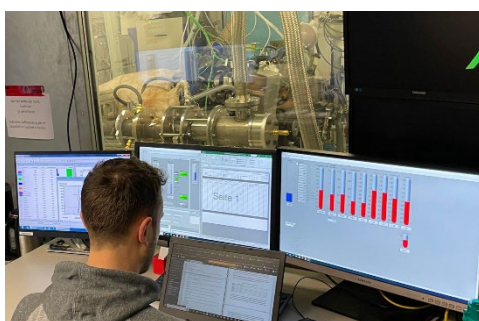
ULTRHAS workshop in Munich

In June 2022 the project group met to discuss progress and prepare for the first test campaign. It was also an opportunity to establish cooperation with another EU funded project on the same topic, the nPETS project, and to get some valuable input and guidance from the advisory board members. The Analytica Conference took place simultaneously, and many members of the project group presented at the conference. [Read more about it here.](#)



1st test campaign in Rostock

In November 2022 the first full test campaign of the project started at Rostock University. The intention was to analyse the gas and aerosol chemistry, and test toxicity of fresh and aged emissions from the jet combustor rig, simulating emissions from full-scale aircraft jet engines. The campaign will continue from February 2023 focusing on emissions from ship engines. [Read more about the first part of the campaign here.](#)



CONFERENCES & SYMPOSIA



Analytica Conference München 2022

Analytica is the world's leading trade fair for laboratory technology, analysis, and biotechnology, and several of the ULTRHAS project participants gave presentations. To see the abstracts from the presentations, please click the link below to find the "Planner". Scroll to Thursday 23 June, ICM/Hall 4b, Aerosol and Health sessions for access to relevant abstracts. [Link to abstracts.](#)



IP13 Conference in Manchester 2023

The Inhaled Particles and NanOEH Conference 2023, organized by the British Occupational Hygiene Society (BOHS), is taking place 15-18 May in Manchester, UK. Dr Johan Øvrevik and Dr Barbara Rothen-Rutishauser from the ULTRHAS project is in the scientific committee, and there will be several oral and poster presentations from the project group. Early-bird rates until 31 March 2023 – [link to webpage.](#)

ULTRHAS PROFILE – presenting people involved in the project



Mr Gowsinth Gunasingam-Palaiyah

PhD student in Prof. Dr. Barbara Rothen-Rutishauser's lab at Université de Fribourg.

Scientific background in Biochemistry. He will participate in all ULTRHAS campaigns.

"My main contribution will be in WP 4 where I will investigate the adverse effect on the secondary tissue organ, specifically the human intestinal model. During the campaigns, I support the biology team in the mobile lab and with the ALI systems."



ULTRHAS PROJECT GROUP



Dr Johan Øvrevik (WP 1 & 6)
Norwegian Institute of Public Health (Coordinator)



Dr Olli Sippula
University of Eastern Finland *Chemistry*



Dr Pasi Jalava (WP 5)
University of Eastern Finland *Environmental and Biological Sciences*



Dr Barbara Rothen-Rutishauser (WP 4)
Université de Fribourg



Dr Otto Hänninen (WP 7)
Finnish Institute for Health and Welfare



Dr Ralf Zimmermann (WP 2)
University of Rostock *Chemistry*



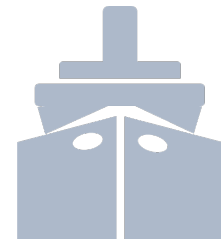
Dr Bert Buchholz
University of Rostock *Piston Machines and Internal Combustion Engines*



Dr Thomas Adam (WP 8)
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Dr Sebastiano Di Bucchianico (WP 3)
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The contents of this publication are the sole responsibility of the ULTRHAS consortium and do not necessarily reflect the opinion of the European Union.

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