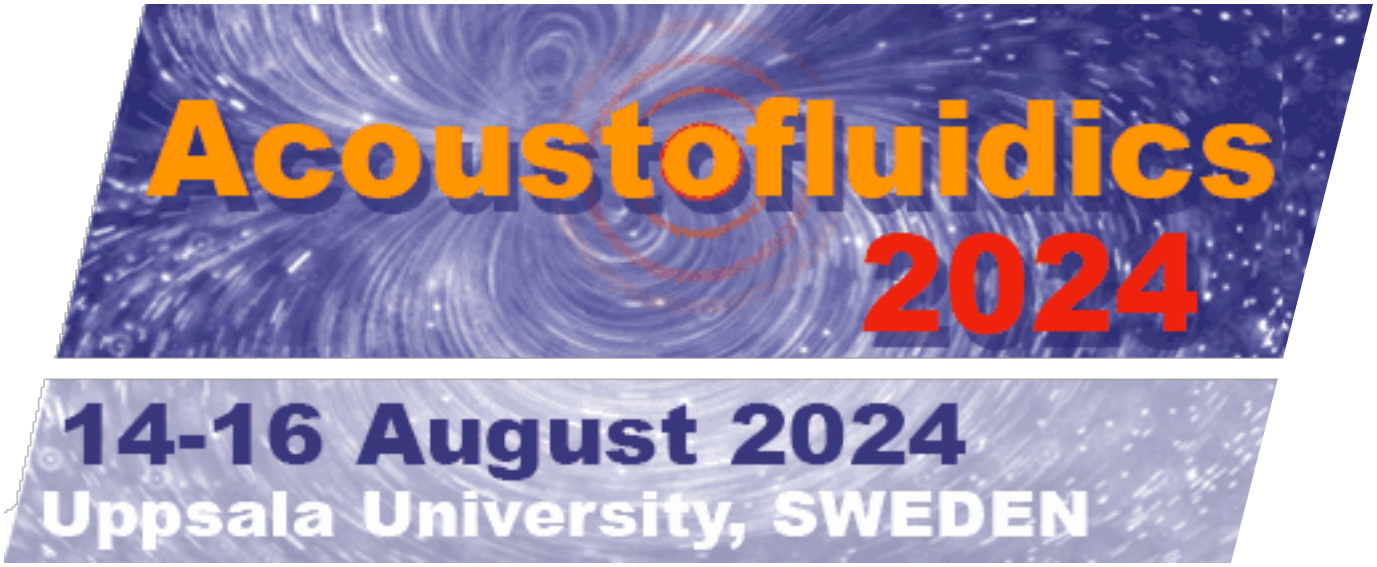

Final Program

All Times are Central European Summer Time (CEST).

Wednesday 14 August

08:50 **Welcome and Opening Remarks**
Maria Tenje, Uppsala University, Sweden – Conference chair
Martin Wiklund, KTH, Sweden – Conference Co-chair

Session 1 – Applications of Acoustic systems-1

Keynote Speaker 1

09:00 Prof. Monika Ritsch-Marte, University of Innsbruck, Austria
Optical and acoustic manipulation for tomographic imaging

Contributed Talks

09:50 Cooper Thome, USA
Acoustic pipette and biofunctional negative acoustic contrast microparticle system for rapid picomolar-level biomolecule detection in whole blood

10:05 Raj Kumar Rajaram Baskara, UK
Acoustofluidic sorting of red blood cells using real-time machine vision

10:20 Megan Havers, Sweden
Rapid acoustic isolation unveils proteome of extracellular vesicles from a minute volume of human blood plasma

10:35 **COFFEE BREAK**

Session 2 – Applications of Acoustic systems-2

Invited Speaker 1

11:00 Advaith Narayan *Coakley Award winner 2023*
Elucidating cell-cell and cell-field interactions for acoustically confined microswimmers

Contributed Talks

11:30 Song Ha Lee, South Korea
Compressibility-based positive isolation of bacteria from platelets using tilted-angle standing surface acoustic wave

11:45 Martim Costa, Sweden
Echogrid: high-throughput acoustic trapping towards micro and nanoplastic monitoring

12:00 Shiyu Li, China
Reversing the acoustic contrast factor by tuning the medium can make focused beams trap cells in three dimensions

12:15 **LUNCH**

Session 3 – Acoustic Manipulation

Keynote Speaker 2

13:30 Prof. Michael Baudoin, University of Lille, France
Advancing the frontiers of acoustic micro-actuators

Contributed Talks

14:20 Esther Richter, UK
Simultaneous fluorescence and absorbance signal sorting of microfluidic droplets using Traveling Surface Acoustic Waves (TSAW)

14:35 T Sujith, India
Relaxation to frozen mode transition of viscoelastic fluids under ultrasound: effects on particle transport

14:50 Mia Kvåle Løvmo, Austria
Acoustofluidic platforms for tomography of biological samples by rotational manipulation

15:05 **COFFEE BREAK**

EVENT ARRANGED BY YASN

15:45 Panel discussion on Academia and funding in different parts of the world

17:00 Joint walk from the Ångström Lab to the University Main Building (~30 min)

Reception

18:00 - 19:00 Reception and Guided tour in the University Main Building

Thursday 15 August

All Times are Central European Summer Time (CEST).

08:50 **Announcements**

Session 4- Physics of Acoustic systems

Keynote Speaker 3

09:00 Prof. Karen P. Volke Sepulveda, National Autonomous Uni of Mexico
The particle size-effect in optical and acoustic traps

Contributed Talks

09:50 Sebastian Sachs, Germany
Influence of dielectrophoresis on spherical and non-spherical particles in a standing surface acoustic wave field

10:05 Mehrzad Roudini, Germany
Near-field acoustic resonance effects and cavitation in saw aerosol generation

10:20 Alex Drago-González, Finland
Superhydrophobic coating acts as a shield against ultrasound-induced heating

10:35 **COFFEE BREAK**

Session 5 - Acoustic Streaming

Invited Speaker 2

11:00 James Friend, USA
Acoustic streaming

Contributed Talks

11:30 Claude Inserra, France
Acoustic microstreaming around asymmetric bubbles

11:45 Haopu Wang, China
Vesicle-based drug loading and intracellular delivery by gigahertz acoustic streaming

12:00 Amirabas Bakhtiari, Germany
Advancing size-selective particle separation: Ultrasonic microbubble streaming for automated depletion

12:15 **LUNCH**

Session 6 - Physics: Two phase Acoustofluidics

Invited Speaker 3

13:30 Ali Vafaie, Australia
Analysis of ultrasound-induced motility enhancement in single sperm using a droplet acoustofluidic system

Contributed Talks

14:00 Sazid Hoque, Denmark
Numerical simulation of bulk acoustic waves induced droplet generation in an immiscible coflow system

14:15 Pradipta Kr. Das, Sweden
Numerical study of acoustic streaming in spherical droplets suspended in unconfined media

14:30 Jeyapradhap Thirisangu, India
Droplet dynamics beyond the Rayleigh limit under acoustic-gravity forces: a route to extract specific droplet sizes from a broad range.

14:45 **COFFE BREAK**

W. Terence Coakley Poster Session and Olympiad

Ångström Laboratory

15:00 – 17:30 Poster session: House 10 ground floor
15:00 – 17:30 Olympiad: House 10
16:00 – 17:00 Board meeting: House 10 room (*open to all*)

Banquet

18:30 – Late Norrland's Nation, Västra Ågatan 14, 753 09 Uppsala

Friday 16 August

All Times are Central European Summer Time (CEST).

08:50 **Announcements**

Session 7 – Applications of Acoustic systems-3

Keynote Speaker 4

09:00 David Collins, University of Melbourne, Australia
TBA

Contributed Talks

09:50 Samir Almohamad, France
Micro-manipulation of miscible fluids with acoustic tweezers

10:05 Enrico Corato, Sweden
Applications of high-power bulk wave Acoustofluidics

10:20 Zhirui Chen, Japan
High-power bulk-wave-acoustophoresis devices utilizing an elliptical reflector focusing transducer

10:35 **COFFEE BREAK**

Session 8- Devices

Contributed Talks

11:00 Mathias Ohlin, Acousort, Sweden
Blood cell focusing in simulation optimized molded polymer acoustophoresis chip

11:15 Saumitra Joshi, Switzerland
Localized bulk acoustic traps using milled aluminum devices

11:30 Emilie Vuille-dit-Bille, Switzerland
Array of piezoelectric micromachined ultrasonic transducers (PMUTs) for the acoustofluidic manipulation of particles and spheroids

11:45 Award Announcements
12:00 Announcement of Acoustofluidics 2025
12:15 Conference Adjourns