Session Program

May 18 – 23, 2026

Microfluidic Horizons 2026

Wednesday 20/05, 14 - 19; Room 35

Wed, May 20

2:00 PM

Wednesday 20/05, 14 - 19; Room 35

Session

3:40 – 4:00 PM

Thermodynamically Consistent Discovery of Polymeric Constitutive Equations using a GENERIC-guided Neural Network framework and application to CFD of complex fluids

4:00 – 4:20 PM

CFD-guided Design and Experimental Validation of Microfluidic Systems for Drug Encapsulation

5:20 – 5:40 PM

Multiphysics modeling of single-particle photoacoustic excitation in a microfluidic platform

5:40 – 6:00 PM

Multiphysics model of magnetic bead collection for lab-on-a-disc platforms

6:00 – 6:20 PM

Machine Learning-Based Design Optimization of a Microfluidic Micromixer for Enhanced Mixing Performance

6:20 – 6:40 PM **A self-driven microfluidic laboratory to explore coacervation**

Speaker

Théo Rowden

7:00 PM