

International Workshop on Flow-Induced Blood Damage in Rotating Systems BDW 2025



Programme

Thursday 4th September

08:30	Breakfast/Registration
09:00	Welcome Katharine Fraser, <i>University of Bath</i>
09:10	Mechanical circulatory support related hemorheological research Nobuo Watanabe, <i>Shibaura Institute of Technology</i>
10:00	Experimental and numerical analysis of the cell-free layer in blood flows up to a haematocrit of 39% Max Lihs, <i>University of Rostock</i>
10:40	Tea break
11:10	Expanding the role of numerical hemolysis modeling in cardiovascular device design and evaluation Ilaria Guidetti, <i>Politecnico di Milano</i>
11:50	Automated design and simulation workflow for VAD Anna Lancmanova, <i>Czech Technical University in Prague/Czech Academy of Sciences</i>
12:30	Lunch break
13:30	Impact of realistic operating conditions on preclinical assessment of hemolysis Simon Klocker, <i>Medical University of Vienna</i>
14:10	Comparison of the hemolytic behavior of pediatric and adult blood in a Couette shearing device Vera Froese, <i>Charité Berlin</i>
14:50	Tea break
15:20	Development of blood mimicking fluids: a comparative study in different flow regimes Gesine Hentschel, <i>Leibniz University Hannover</i>
16:00	Updates on the BDW Testcase Benjamin Torner, <i>Medical University of Vienna</i>
18:00	Evening reception (food and drinks included) <i>The Boater</i> 9 Argyle St, Bath BA2 4BQ

Friday 5th September

08:30	Breakfast/Registration
09:00	Welcome back Katharine Fraser, <i>University of Bath</i>
09:10	Advances in hemocompatibility testing of mechanical circulatory support devices Bala Sivraman, <i>Abbott</i>
09:50	Haemolysis measurements for centrifugal and pulsatile pumps Ronald Knight, <i>Haemair</i>
10:30	Tea break
11:00	Pumpless in-vitro oxygenator haemolysis setup Nicolas Gendron, <i>RWTH Aachen University</i>
11:40	Model hierarchies for hemolysis prediction in blood-handling medical devices Nico Dirkes, <i>RWTH Aachen University</i>
12:20	Lunch break
13:20	Rapid-fire: Correlating turbulence with blood damage Rosmarie Schoefbeck, <i>Medical University of Vienna</i>
13:40	Analyzing turbulent effects on blood damage using a counter-rotating Taylor-Couette system Henri Wolff, <i>Charité Berlin</i>
14:20	Tea break
14:50	The effects of turbulence over the performance of three commercial blood pumps Peng Wu, <i>Southeast University</i>
15:30	Rapid-fire: EchoPIV for turbulent field measurement in blood analogues Evelyn Hu, <i>University of Bath</i>
15:50	Closing words Katharine Fraser, <i>University of Bath</i>



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