

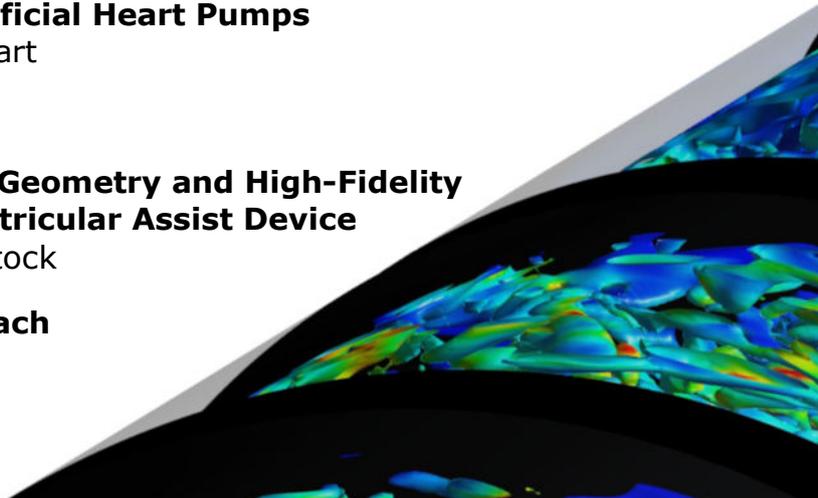
International Workshop on Flow-Induced Blood Damage in Rotating Systems 2023

Program

Thursday, August 24



- 09.00** **Welcome Session with Short Film Presentation**
Frank-Hendrik Wurm, University of Rostock
- 09.30** **Thrombosis Testing in the Real World: Challenges and Clinical Relevance**
Michael Simmonds, Griffith University
- 10.00** **Multispecies Modelling of Thrombosis Potential in Blood Contacting Medical Devices**
Kathrine Fraser, University of Bath
- 10.45** **Coffee Break**
- 11.15** **Thrombogenic Risk Assessment of Cardiovascular Implants by Means of Experimental and Numerical Flow Analyses**
Michael Stiehm, Institut für ImplantatTechnologie und Biomaterialien e.V.
- 12.00** **Lunch**
- 13.15** **Experimental Study of Blood Damage in Different Test Setups**
Michael Lommel, Charité Berlin
- 14.00** **Hemolysis from a (Bio-)Chemical Point of View: the Underestimated Role of the Porphyrin Heme**
Marie-T. Hopp, University of Koblenz
- 14.45** **Coffee Break**
- 15.15** **Rheometer-Based Shearing Device for Investigating Sources of Variance in Hemolysis Measurements**
Christopher Blum, RWTH Aachen University
- 16.00** **Impact of Connector Design and Influence of Anticoagulant on in vitro Hemolysis Testing of Artificial Heart Pumps**
Faisal Zaman, Scandinavian Real Heart
- 16.45** **Coffee Break**
- 17.00** **RostockTestCase – Open Access Geometry and High-Fidelity Flow Simulation Results of a Ventricular Assist Device**
Benjamin Torner, University of Rostock
- 17:30** **Leisure Time and Walk to the Beach**
- 19.00** **BBQ at the Beach**



Friday, August 25

	Morning Coffee	08.45
Particle Migration and the Influence on the Stress Field in Microfluidic Flows		09.00
Finn Knüppel, University of Rostock		
Ghost Cells as a Transparent Blood Substitute Fluid - Microscopic Examination of Cell Shape, Size and Deformability		09.45
Benjamin Schürmann, RWTH Aachen University		
	Coffee Break	10.30
On the Effect of the Form of Effective Stress and Turbulence Modeling Technique on the Prediction of Hemolysis in Rotatory Blood Pumps		11.00
Peng Wu, Soochow University		
Assessment of Haemolysis Models for a Pulsatile Total Artificial Heart		11.45
Joseph Bornhoff, University of Barth		
	Lunch	12.30
Open Discussion and News of our (BDW) Hemolysis Testcase		13.30
All (Optional)		
Eulerian Formulation of Red Blood Cell Morphology Equations for Strain-Based Hemolysis Modeling		14.00
Nico Dirkes, RWTH Aachen University		
Comparison of Stress-Based and Strain-based Lagrangian Models for Hemolysis Estimation		14.45
Ilaria Guidetti, Politecnico di Milano		
	Last Coffee Break for Discussions	15.30
Future Perspectives and Closing Ceremony		16.00
	End	16.15