

## Tuesday 7/9/2021

British Summer Time	yESAO ACTIVITIES
12.45-1.00 pm	yESAO Opening
1.00 - 2.00	Keynote: Prof. Wamadeva Balachandran: "Organs on a Chip"
2.00 - 3.30	Session: "Talk About Your Method"
3.30 - 4.00	Coffee Break
4.00 - 5.00	Session: "Your Research in 3 Minutes"
5.00-6.30	Dinner Break
6.30 - open end	yESAO Social Programme (Cocktail Class & Games Night)

## Wednesday 8/9/2021

British Summer Time	yESAO ACTIVITIES	ESAO ACTIVITIES
9.00- 10.00 am	Keynote: Dr. Karolin Helbig : "The Art and Science of Leadership - What I wish I Knew as a Young Researcher "	Board Meeting
10.00 - 12.00	Workshop: "How to train your Dragon - Leadership, Self Leadership and Performance as a Team"	
12.00 - 1.00 pm	Lunch Break	Board Meeting
1.00 - 2.30	Session: "Finding Your Career Path: Academics & Beyond"	
2.30 - 3.00	Coffee Break	
3.00 - 4.00	Keynote: Professor Ellen Roche - "Softrobotics for the Heart"	
4.00 - 5.00	Screen Break	ESAO main program
5.00 - 8.00		

**Date** Tuesday 7/9/2021 **Time** 2.00-3.30

**Session Title** Talk about Your Method

**Chairs** Ben Torner (University of Rostock, GER) **Co-Chair** Francesco De Gaetano (Politecnico di Milano, ITA)

Title	Speaker	Affiliation
Particle Image Velocimetry as a Tool for Measuring Fluid Dynamics in Porous Scaffolds	Flavia Bonalumi	University of Brighton, GBR
Turbulence Basics: Reynolds Averaged Navier Stokes Equations and the Closure Problem	Katherine Fraser	University of Bath, GBR
3D-Printing at the Medical University of Vienna	Gunpreet Oberoi	Medical University of Vienna, AUT
3D-Printed Lab	Vera Froehse & Tim Bierewitz	Charité Berlin, GER
Cardiorespiratory Simulators for Medical Device Testing	Libera Fresiello & Krzysztof	KU Leuven, BEL & IBBE PAS, POL
How to perform Mechanical Tests on viscoelastic Soft Tissue: Tips and Tricks	Francesco De Gaetano	Politecnico di Milano, ITA
C4Bio: Test Campaign 1. Characterization of Biological Tissue	Sara Leal-Marin	Leibniz University Hannover, GER
Hemolysis Assessment in Continuous Flow Blood Pumps: Standards and current Trends	Andreas Escher	Medical University of Vienna AUT
Multiple Analysis Methods of the Same Factor: How many are useful?	Pia Hefer	RWTH Aachen University, GER

**Date** Wednesday 8/9/2021 **Time** 1.00-2.30

**Session Title** Finding Your Career Path: Academics & Beyond

**Chairs** Anna Stecka (IBBE PAS, POL) **Co-Chair** Kristin Hugenroth (RWTH Aachen University, GER)

Title	Speaker	Affiliation
Biofluid mechanics: from red blood cells to kidney stones	Francesco Clavica	University of Bern, CH & Co-
Should I Chose an Academic Career? Advices from Captain Hindsight	Michael Neidlin	RWTH Aachen University, GER
How yESAO expanded my networking and my opportunities for research experiences abroad	Libera Fresiello	KU Leuven, BEL
Life is like a pendulum swinging between engineering and medicine (mod. cit A. Schopenhauer)	Arianna Di Molfetta	Policlinico Gemelli-Catholic University of Rome, ITA
Discussion Round		

**Date** Tuesday 7/9/2021 **Time** 4.00-5.00

**Session Title** Your Research in 3 minutes

**Chairs** Jana Korte (RWTH Aachen University, GER) **Co-Chair** Andreas Escher (Medical University of Vienna, AUT)

Title	Speaker	Affiliation
Modular Physiological Control for LVADs	Martin Maw	Medical University of Vienna, AUT
Computer modelling of heat transfer and electromagnetic fields distribution in tissues	Ekaterina Ryabchenko	National Research University of Electronic Technology MIET, RUS
Functionalization of the LVAD suture-less inflow cannula for enhanced tissue integration	Sophie Armstrong	Monash University, AUS
fluorescent hemolysis detection with ghost cells	Ben Schürmann	RWTH Aachen University, GER
Visualisation of platelet deposition for different coatings	Isabell Esslinger	Charité Berlin, GER
New microfluidic approach to predict future microbial resistance	Sophie Becke	Charité Berlin, GER
Turbulence and Turbulent Flow Structures in a ventricular assist device	Ben Torner	University of Rostock, GER