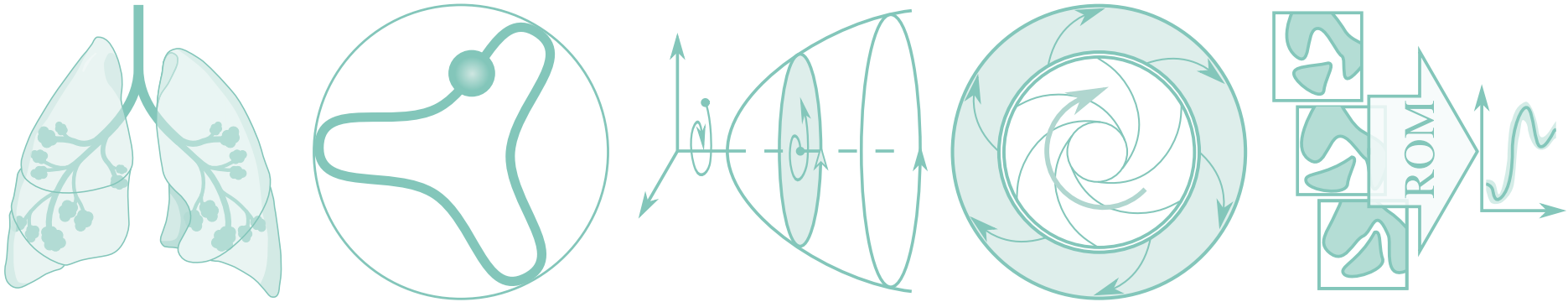
List of Invited Talks

Francesco Romanò
Department of Fluid Mechanics and Energetics, Arts et Métiers, Lille
francesco.romano@ensam.eu



Updated to May 4, 2024

Biological Flows

B1 F. Romanò, *Liquid plug formation in an airway closure model*, Institute of Science and Technology, Vienna, Austria, September 2018.

B2 F. Romanò, *Airway closure in microscopic bronchioles* (talk held within the framework of the course BIOMEDE 476 001 WN 2019), University of Michigan, Ann Arbor, USA, April 2019.

B3 F. Romanò, *Peristaltic flow in the glymphatic system*, Technische Universität Wien, Vienna, Austria, June 2019.

B4 F. Romanò, *Peristaltic flow in the glymphatic system*, Institute of Science and Technology, Vienna, Austria, June 2019.

B5 F. Romanò, *Effect of viscoelasticity and surfactant in an airway closure model*, University of Lille, Lille, France, May 2020.

B6 F. Romanò, *Airway closure: the effects of surfactant, viscoelasticity, elastoviscoplasticity and two-layer lining*, University of Udine, Udine, Italy, November 2021.

B7 F. Romanò, *Airway closure: the effect of surfactant, viscoelasticity, elastoviscoplasticity and two-layer lining*, **Keynote speaker**, Mathematics and Physics of Fluids 2021, IIT Gandhinagar, India, November 2021.

Biological Flows

B8 F. Romanò, *The Fluid Mechanics of Lung Clogs in the Bronchioles*, Institute of Science and Technology, Vienna, Austria, November 2021.

B9 F. Romanò, *The Fluid Mechanics of Lung Clogs in the Bronchioles*, VirginiaTech, Roanoke, Virginia, USA, November 2021.

B10 F. Romanò, *The Fluid Mechanics of Airway Closure in the Bronchioles*, LMFL Fluid Mechanics Webinar, LMFL, Lille, France, February 2022.

B11 F. Romanò, *The Fluid Mechanics of Airway Closure in the Bronchioles*, DynFluid, Arts et Métiers, Paris, France, November 2022.

B12 F. Romanò, *The Fluid Mechanics of Airway Closure in the Bronchioles*, Department of Physics, University of Rome Tor Vergata, Rome, Italy, January 2023.

B13 F. Romanò, *The Fluid Mechanics of Airway Closure in the Bronchioles*, Department of Biomedical Engineering, Atlanta, GeorgiaTech, Georgia, USA, May 2023.

B14 F. Romanò, *Interstitial Flow: Two Elucidating Examples of First-Principle Modeling applied to Microscale Bioflows*, **Invited speaker**, Nano S&T-2023, Osaka, Japan, May 2023.

Biological Flows

B15 F. Romanò, *Pulmonary Edema: A Microvascular Septal Tract Model*, Institute of Fluid Mechanics and Heat Transfer, TUWien, Vienna, Austria, July 2023.

B16 F. Romanò, *The Fluid Mechanics of Airway Closure in the Bronchioles*, FAST, Université Paris-Saclay, Paris, France, October 2023.

Lagrangian Chaos and Particles

P1 F. Romanò, *Particle accumulation structures in thermocapillary liquid bridges*, Tokyo University of Science, Tokyo, Japan, March 2016.

P2 F. Romanò, *A universal mechanism for rapid particle accumulation in fluids*, PPrime, Poitiers, France, November 2017.

P3 F. Romanò, *Lagrangian chaos: mixing and coherent structures*, Institute of Science and Technology, Vienna, Austria, January 2018.

P4 F. Romanò, *Particle coherent structures in incompressible fluid flows*, Technische Universität München, Munich, Germany, June 2019.

P5 F. Romanò, *Finite-Size Lagrangian coherent structures*, University of Lille, Lille, France, September 2019.

P6 F. Romanò, *Flow Mixing and Particle Transport in Cavities*, **Keynote speaker**, 5th Jin Shan International Symposium on Fluids Machinery and Engineering, Zhenjiang, China, November 2020.

P7 F. Romanò, *Reconstructing the fluid flow by tracking of large particles*, **Invited symposium speaker**, 1st BICTAM-CISM Symposium on Dispersed Multiphase Flows, Beijing, China, March 2021.

Lagrangian Chaos and Particles

P8 F. Romanò, *Mixing and Accumulation of Particles in Cavities at Low and Moderate Reynolds Numbers*, LTEN, Polytech Nantes, Nantes, France, April 2022.

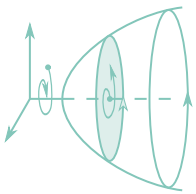
P9 F. Romanò, *Mixing and Accumulation of Particles in Cavities at Low and Moderate Reynolds Numbers*, VirginiaTech, Roanoke, Virginia, USA, May 2023.

P10 F. Romanò, *Self-organizing Particles in a Chaotic Thermocapillary Liquid Bridge*, TU Dresden, Dresden, Germany, March 2024.

Stability Analysis

S1 F. Romanò, *Hydrodynamic Instability in Thermocapillary Liquid Bridges*, LEGI, Université Grenoble Alpes, Grenoble, France, January 2023.

S2 F. Romanò, *Hydrodynamic Instability in Thermocapillary Liquid Bridges*, ETSIAE-UPM and Numath's group, Spain, February 2023.



Turbomachinery and Flow Control

T1 F. Romanò, *Rotating instabilities in a centrifugal pump*, Lille Turbulence Program, LMFL, Lille, France, July 2022.

T2 F. Romanò, *Instabilities in a Centrifugal Pump*, **Plenary speaker**, 17th Asian International Conference on Fluid Machinery (AICFM17), Zhenjiang, China, October 2023.

Reduced-Order Modeling

R1 F. Romanò, *Machine Learning for Optimal Flow Control in an Axial Compressor*, **Keynote speaker**, Artificial Intelligence meets Fluid Dynamics, India, July 2023.