

Scottish Soft Matter Meeting 2025

12 February 2025

Higgs Centre for Theoretical Physics - University of Edinburgh

09:00-09:50	Registration
09:50-10:00	Welcome by the organisers
Session 1	
Chair	Tyler Shendruk
10:00-10:30	Invited talk 1: Lynn Paterson - 3D microrheology using Optical Tweezers with Integrated Multiplane Microscopy
10:30-11:00	Invited talk 2: Juliane Simmchen - Beyond spheres - new shapes for active matter
11:00-11:15	Contributed talk 1: James Richards - From model suspensions to industrial challenges in chocolate and cement
Coffee break 1	
11:15-11:45	
Session 2	
Chair	Apala Majumdar
11:45-12:15	Invited talk 3: Luke Davis - Control of continuous and discrete-state active matter
12:15-12:30	Contributed talk 2: Ben Goddard - An Introduction to (Dynamic) Density Functional Theory
12:30-12:45	Contributed talk 3: Alexander Houston - Spontaneous Oscillations in Heterogeneous Active Nematics
12:45-13:00	Contributed talk 4: Grazia De Angelis - Developing new multiscale models leveraging ML to advance the understanding of fluid transport in polymers
Lunch	
13:00-14:30	
Session 3	
Chair	Halim Kusumaatmaja
14:30-15:00	Invited talk 4: Marcelo Dias - Exploring Damage in Mechanical Metamaterials
15:00-15:30	Invited talk 5: Rebecca Walker - Structure-property relationships in ferroelectric nematogens
15:30-15:45	Contributed talk 5: Joseph Kilbride - Growing droplets in evaporating breath figures due to the Kelvin effect
Coffee break 2	
15:45-16:15	
Session 4	
Chair	Rastko Sknepnek
16:15-16:45	Invited talk 6: Ulrich Zachariae - Modelling biological membranes and membrane-integral proteins under realistic voltage conditions
16:45-17:00	Contributed talk 6: Sravana Chaithanya Kanala Venkata - Vertex model with internal dissipation enables sustained flows
Closing remarks/Open discussions	
17:00 - 17:30	
Dinner	
19:30 -	Hotel du Vin (11 Bristo Pl, Edinburgh EH1 1EZ)