

Stokes²⁰⁰ Symposium

Poster session in Chapel Cloister

1. Radial distribution function of Lennard-Jones fluids in shear flows from intermediate asymptotics
Luca Banetta (Cambridge)
2. Nonlinear turbulent wind-gravity wave coupling: standing on the shoulders of Stokes
Anthony Bonfils (Nordita)
3. The relative roles of viscosity and elasticity in cell motility
Kenny Breuer (Brown)
4. Active versus passive bundling of prokaryotic flagella
Alex Chamolly (Cambridge)
5. Stokes flows in deformable conduits: Hydrodynamic resistance beyond Poiseuille
Ivan Christov (Purdue)
6. Oriented suspension mechanics for pathogen detection
Gemma Cupples (Birmingham)
7. Quincke rotation of helices: May the torque be with you
Debasish Das (Cambridge)
8. Dipolar thermocapillary motor and swimmer
Valeri Frumkin (Israel)
9. How does the human sperm flagellum beat in 4D?
Hermes Gadelha (Bristol)
10. Cilia-driven fluid flow and particle transport in the embryonic left-right organising structure
Meurig Gallagher (Birmingham)
11. Stokes flows and chaos - studying the dynamics of red blood cells
Florimond Gueniat (Birmingham City)
12. Efficient implementation of elastohydrodynamic integral operators for Stokesian filaments
Atticus Hall-McNair (Birmingham)
13. Lagrangian transport by surface gravity wavepackets: effects of directional spread and stratification
Christopher Higgins (Oxford)
14. Exploring single cell mechanosensitivity
Alberto Ippolito (Cambridge)
15. Capillary ripples in thin films
Mazi Jalaal (Cambridge)
16. SPT: Slender Phoretic Theory of Chemically Active Filaments
Panayiota Katsamba (Birmingham)
17. Stokes paradox: creeping flow past a two-dimensional cylinder in an infinite domain
Arzhang Khalili (Max Planck)
18. Phototactic swimming of micro-algae
Helene de Maleprade (Cambridge)
19. Divergence-free MLPG solution of Stokes flow
Mahboubeh Najafi (Tehran Polytechnic)
20. Finite element modelling of microswimmers with applications in reproductive biology
Cara Neal (Birmingham)
21. The effect of roughness on the drag coefficient of a flow past a sphere
Pablo Padilla (UNAM, Mexico)
22. Boiling and atomisation characteristics of complex liquid droplets impacting onto a heated substrate
Khushboo Pandey (Bangalore)
23. Capillary instability in viscoelastic outer fluids
Claudiu Patrascu (Bucharest)
24. Bimolecular reaction-diffusion fronts in surface tension-driven Stokes flows
Tiani Reda (ULB, Brussels)
25. Generalising the Stokes-Einstein diffusion coefficient
Clare Rees-Zimmerman (Cambridge)
26. Planar chemical gardens and methane hydrate deposits: "spider leg" growth
Luis Rocha (Cambridge)
27. Dynamics of droplet impingement on bioinspired surface: insights into spreading, anomalous stickiness and breakup
Durbar Roy (Bangalore)
28. X-ray radiography of viscous resuspension
Brice Saint-Michel (Imperial)
29. Nonlinear electrophoresis of highly charged nonpolarizable particles
Soichiro Tottori (Cambridge)
30. Mixing induced by a plume of ellipsoidal bubbles in a stratified fluid
Arna Sigurdardottir (Cambridge)
31. Flow regimes of stratified particle-laden plumes
Jonathan Barnard (Cambridge)
32. Methane releases in Siberia
Ana Morgado (Cambridge)

