



Programme

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DAY 1 – Monday, 24 June 2024			
Morning sessions			
07:30	Registration, Conference Bag and Badge pick-up (Nucleus Entrance)		
08:30	Tea and Coffee (Alder Hall)		
09:00	Opening & Welcome (Larch Lecture Theatre)		
09:15	Keynote 1: Prof Rama Govindarajan Chair: Prof Omar Matar Larch Lecture Theatre		
	<u>Instabilities & Bifurcations 1</u> Chair: Prof Omar Matar Larch Lecture Theatre	<u>Computational, Theoretical and Experimental Methods</u> Chair: Prof Alexander Gelfgat Yew Lecture Theatre	<u>Applications & Flow Control</u> Chair: Prof Bar Yoseph-Pinhas Elm Lecture Theatre
10:00	M001: Electrohydrodynamic stability of an oscillating streaming fluid cylinder by AA Hasan	M013: Physics informed neural networks for accelerating periodic thermal and fluid engineering simulations by L Chaplot, A. Sharma	M025: Stabilising travelling waves from pipe flow turbulence by D Lucas, T Yasuda
10:15	M002: Secondary instabilities of hexagonal patterns of Marangoni convection with deformable interface covered by surfactant by A Mikishev, A Nepomnyashchy	M014: Seeking for rare events in a backward-facing step flow using real-time particle image velocimetry by J Pimienta, J-L Aider	M026: Hele-shaw flow of a nematic liquid crystal by S Wilson, JRL Cousins, AS Bhadwal, NJ Mottram, CV Brown
10:30	M003: Compressibility effect on Darcy porous convection by G Arnone, F Capone	M015: Spatially-developing disturbance modes in the temporally-periodic burgers equation: a nonlinear analysis by PV Brandão, A Barletta, M Celli, S Lazzari, E Ghedini	M027: Optimisation of average quantities in a forced Lorenz system: influence of periodic orbits by F Jovanovic, TS Eaves
10:45	M004: Flow in a porous medium considering crossflow and slip by L Tlau, K Vasuki	M016: Optimizing external forces for lock-in to the oscillatory flow past a flat plate in a uniform flow by M Iima	M028: Active control of trailing vortices by synthetic jets in the axial direction near the wingtip by C del Pino, L Parras, JH Garcia-Ortiz, J. Aguilar-Cabello, FJ Blanco-Rodriguez, P Gutierrez-Castillo
11:00	Coffee Break (Alder Lecture Theatre)		
11:30	M005: One-dimensional study on instability and dynamics of a surfactant-laden viscoelastic thread by F Liu, D He	M017: Numerical properties of the differentially heated cavity with varying aspect ratios by F Wubs, S Baars, J Thies	M029: Influence of the theoretical model on an active control of wingtip vortices by P Gutierrez-Castillo, M Garrido-Martin, T Bölle, FJ Blanco-Rodriguez, C del Pino
11:45	M006: Effect of a soft-gel coated wall on the evolution of Faraday waves by D Bhagavatula, G Balram, R Kumar	M018: The stability of magnetohydrodynamic flows in cylindrical geometries using a velocity-vorticity formulation by B Knaepen, Y Velizhanina	M030: Frequency response as a tool for optimizing active control of trailing vortices by M Garrido-Martin, T Bölle, C del Pino, FJ Blanco-Rodriguez, P Gutierrez-Castillo
12:00	M007: Instabilities in catalytically active pores by G Antunes, P Malgaretti, J Harting	M019: Stability of periodic solutions using Chebyshev polynomials by LM Witkowski, A Gesla, Y Duguet, P Le Quéré	M031: Shear migration of ceramic slips by A Fontanari, M Bellotto, G Artioli
12:15	M008: Instability of stratified air-water pipe flows by I. Barmak, Y. Nezhovskii, A. Gelfgat, N. Brauner	M020: A new algorithm and simulation for multiphased strongly fuzzy compressible flows by B Nyaare, O Ongati, T Aminer	M032: Aerodynamic forces in wing models with spanwise deformation by L Parras, P Gutierrez-Castillo, P Solis, C del Pino, FJ Blanco-Rodriguez, E Duran-Venegas
12:30	Lunch Break (Alder Lecture Theatre)		

DAY 1 – Monday, 24 June 2024 Afternoon Sessions			
13:30	Keynote 2: Prof Roberto Zenit <i>Chair: Prof Stephen Wilson</i> Larch Lecture Theatre		
	<u>Instabilities & Bifurcations 2</u> <i>Chair: Prof Lennon Ó Náraigh</i> Larch Lecture Theatre	<u>Geophysical & Astrophysical Flows</u> <i>Chair: Prof Daphne Lemasquerier</i> Yew Lecture Theatre	<u>Flames & Reacting Flows</u> <i>Chair: Dr Antonio Attili</i> Elm Lecture Theatre
14:15	M009: Effects of heavy and light particles on Rayleigh-Bénard instability by <i>S. Raza, SC Hirata, E Calzavarini</i>	M021: Local instabilities of rotating baroclinic flows with radial heating by <i>O Kirillov, I Mutabazi</i>	M033: Correlating gas-phase kinetics simulations to liquid monopropellant burning rates at high pressures - the role of phase change and surface temperature by <i>R Schwind</i>
14:30	M010: A minimal wave-mean flow model for Rossby wave instability in shear flows by <i>E Heifetz, E Gengel</i>	M022: From a vortex gas to a vortex crystal in instability-driven two-dimensional turbulence by <i>E Knobloch, A van Kan, B Favier, K Julien</i>	M034: Flickering and shedding of droplet diffusion flames under acoustic excitation by <i>K Pandey, S Basu, B Krishan, V Gautham</i>
14:45	M011: Natural convection-induced instability around a Janus particle by <i>ET Özdemir, F Viola, L Biancofiore</i>	M023: Numerical investigation on flow field and potential of scouring around reef cubes® in marine environment by <i>A Bordbar, V Kelefouras, S Hickling, H Short, E De Villiers, J Knir, YC Lee</i>	M035: Evaluation of the turbulent transport in boundary layers with flame-wall interactions by <i>B Peterson, X Wei, A Padhiary</i>
15:00	M012: A local rom for Rayleigh-Bénard bifurcation problems by <i>J Cortés, H. Herrero, F. Pla</i>	M024: React, shear and compact: Competing instability mechanisms in the partially molten upper mantle by <i>DR Jones, H Zhang, RF Katz</i>	M036: Thermodiffusive and wake instabilities in lean hydrogen flames by <i>J King, R Feng, SJ Lind</i>
15:15	Coffee Break (Alder Lecture Theatre)		
	<u>Poster Presentations Session (TP - Talk + Poster: P - Poster only)</u> <i>Chair: Dr Alex Wray</i> Larch Lecture Theatre		
15:45	TP205: Shear layer instability forms asymmetrical turbulent flow distribution in periodic porous media by <i>V Srikanth, AV Kuznetsov</i>		
16:00	TP206: Flow behaviour in channels with a meniscus interface replacing part of a solid wall by <i>E Bold, E Oesterschulze</i>		
16:15	TP207: Dynamics of pancake-like geophysical vortices: from waves to (bulk) turbulence? By <i>J Vidal, Y. C de Verdière</i>		
16:30	TP208: Curve patterns in the spectrogram of ultrasonically driven bubbles under increasing excitation amplitude by <i>Y Zhang, H Metzger, P Prentice, A Cammarano</i>		
16:45	TP209: Sloshing instability driven by a bubble plume by <i>M Vacher, T Boirot, S Perrard, S Ramananarivo</i>		
17:00	TP210: Thermodiffusive flame instabilities in methane/hydrogen blends by <i>S Al Kassar, A Attili</i>		
17:15	TP211: Evaporating sessile droplets: solutal Marangoni effects overwhelm thermal Marangoni flow by <i>D Rocha, PL Lederer, C Seyfert, A Marin, D Lohse, C Diddens</i>		
17:30	P212: Application of immersed finite-element method for modelling non-Newtonian fluid around rigid bodies by <i>F Gaspar Jr, N Mangiavacchi, S McGuinty, GR Anjos</i>		
17:33	P213: Droplet to thin film dielectrowetting by <i>C Williams, G McHale, G Wells, R Ledesma-Aguilar, J Terry</i>		
17:36	P214: Enhanced control of double emulsion formation in microchannels using surface-active agents by <i>C Tang, L Chagot, P Angeli</i>		
17:39	P215: Investigating soiling patterns of rotating tire using CFD by <i>F Gueniat, A Jambholkar, H Penumadu</i>		
17:42	P216: Turbulent energy spectrum in the DIA approximation by <i>E Kohler, M Fuchs</i>		
17:45	P217: Theoretical analysis of flow through a cross-slot by <i>X Ji, HJ Wilson</i>		
17:48	Poster Viewing (Alder Lecture Theatre)		
18:00	Welcome Cocktail Reception + Entertainment (Nucleus First Floor)		

DAY 2 - Tuesday, 25 June 2024			
Morning Sessions			
09:00	Keynote 3: Prof Satish Kumar Chair: Prof Glen McHale Larch Lecture Theatre		
	<u>Instabilities & Bifurcations 3</u> Chair: Dr Alex Wray Larch Lecture Theatre	<u>Phase-Change 1</u> Chair: Dr Dani Orejon Yew Lecture Theatre	<u>Multiphase & Interfacial Flows 1</u> Chair: Dr Rachel Schwind Elm Lecture Theatre
09:45	Tu037: Coupled instability fostered mesoscale sunflowers in porous medium by V Vanarse, D Bandyopadhyay	Tu056: Does the Van der Waals force play a part in evaporation? by E Benilov	Tu075: Optimum viscosity ratio for enhanced instability and mixing in layered channel flows by P Banga, SN Maharana, M Mishra
10:00	Tu038: Bifurcations and flow topology in a model branching flow with an aneurysmal perturbation by A Chatterjee, J Sesterhenn	Tu057: Flow stability in shallow droplets subject to localized heating of the bottom plate by KE Pang, C Cuvillier, Y Kita, L Ó Náraigh	Tu076: Influence of capillary instability on the stratified liquid-liquid flow pattern transition by P Miranda, JE Arrollo-Caballero, OMH Rodriguez
10:15	Tu039: Instability and bifurcation of poiseuille flow in fluid overlying porous domain by P Bera, A Aleria	Tu058: Experimental study of thermocapillarity-induced deformation of evaporating films on structured copper surfaces by R Behle, P Stephan, T Gambaryan-Roisman	Tu077: A multidimensional examination of phase separation in single-component fluids by S Das, M Mussel
10:30	Tu040: Monotone energy stability of plane Couette and Poiseuille flows: critical Reynolds numbers and Squire's theorem for nonlinear stability by G Mulone	Tu059: Evaporation-induced translation of multiple binary droplets by D Debnath, A Malachtari, G Karapetsas, D Orejon, K Sefiane, A Amirfazli, P Valluri	Tu078: Partial encapsulation in binary droplet collisions of miscible liquids by É Ruiz-Gutiérrez, K Dalgarno, N Chakraborty
10:45	Tu041: Marangoni instability in a surfactant solution above the cmc point by A Nepomnyashchy	Tu060: Evaporative behavior of liquid-liquid phase separated alcohol droplets by JA Lazo, R-H Chen	Tu079: Mitigation of generated air-entrainment from free surface vortices at pump suction using combined multipoint intakes and air separator system by RK Mondal, D Debnath, P Kumar
11:00	Coffee Break (Alder Lecture Theatre)		
11:30	Tu042: Experimental study on the stability of core-annular flow using particle image velocimetry (PIV) and planar laser induced fluorescence (PLIF) techniques by JEA Caballero, PJM Lugo, OMH Rodriguez	Tu061: Stability analysis of dryout inception for boiling CO2 by G Cantini, G Arnone, F Capone, J Gianfrani, M Carnevale	Tu080: The role of Marangoni effect on the non-isothermal falling fluid film instability by AY Özel, C Ruyer-Quil, L Biancofiore
11:45	Tu043: Analytical model for long-time Rayleigh-Taylor bubble evolution by Z Xiao, C Liu, Y Zhang	Tu062: The impact of evaporation regime on the stability of volatile liquid films by O Mohamed, L Biancofiore	Tu081: Mass transport in a horizontally vibrated fluid layer by M Bestehorn, ID Borcia, R Borcia, S Richter, F-T. Schoen, U Harlander
12:00	Tu044: Stability of Hartmann flows in inclined layers by P Falsaperla, G Mulone	Tu063: Droplet evaporation and the stick-slip modes trifurcation by D Orejon, KM Al Balushi, G Duursma, P Valluri, K Sefiane	Tu082: Suppression of magnetohydrodynamic interfacial wave instabilities by means of parametric anti-resonance by GM Horstmann, J Kuhn, F Dohnal
12:15	Tu045: The Jacobian analytical method (JAM) by MA Herrada	Tu064: Field-induced capillary condensation: surface diffusion or spontaneous nucleation? by A Afzalifar, RHA Ras	Tu083: Numerical simulations of surfactant-covered Faraday Waves: role of Marangoni stresses in pattern formation by D Panda, L Kahouadji, L Tuckerman, S Shin, J Chergui, D Juric, OK Matar
12:30	Lunch Break (Alder Lecture Theatre)		

DAY 2 – Tuesday, 25 June 2024

Afternoon Sessions

13:30	<p>Keynote 4: Prof Camille Duprat Chair: Dr Dani Orejon Larch Lecture Theatre</p>		
	<p><u>Instabilities & Bifurcations 4</u> Chair: Dr Pedro Sáenz Larch Lecture Theatre</p>	<p><u>Phase-Change & Multiphase Flows 2</u> Chair: Dr John Christy Yew Lecture Theatre</p>	<p><u>Waves & Interfacial Flows 2</u> Chair: Prof Satish Kumar Elm Lecture Theatre</p>
14:15	Tu046: Marangoni convection and instability in a wall film: Three-dimensional CFD simulation by A Khazayialiabad, T. Gambaryan-Roisman	Tu065: Condensation and evaporation of a sessile droplet on asymmetric wavy surfaces by L Bisquet, É Ruiz-Gutiérrez, M Pradas, R Ledesma-Aguilar	Tu084: What leads to Stokes drift? By A Guha, A Gupta
14:30	Tu047: Shape stability of an encapsulated microbubble in a non-Newtonian liquid by I Kaykanat, AK Uguz	Tu066: Scaling effects of substrate wettability and bubble population density on pool boiling by G Minozzi, A Lavino, E Smith, T Karayiannis, K Sefiane, OK Matar, D Scott, T Krueger, P Valluri	Tu085: Dynamic liquid-liquid interfaces of aqueous phase-separating systems by HC Shum
14:45	Tu048: Roses are red, violets are blue, and streaming may seed flowers too by B Vincent, A Kumar, D Henry, S Miralles, V Botton, A Pothérat	Tu067: Stability of evaporating drops comprising binary mixtures by K Thomson, G Karapetsas, Y Kita, OK Matar, K Sefiane, D Orejon, P Valluri	Tu086: Driven shock in 3D: Euler equation versus molecular dynamics, and Navier-Stokes equation by A Kumar, R Rajesh
15:00	Tu049: Heat transfer transition during the melting process of subcooled PCMs by M Li, L Zhu	Tu068: Stabilizing an adverse density difference across an interface using phase change by R Narayanan, LE Johns	Tu087: Faraday waves in thin containers: A Floquet analysis by F Viola, A Bongarzone, B Jouron, F Gallaire
15:15	<p>Coffee Break (Alder Lecture Theatre)</p>		
15:45	Tu050: Neimark-Sacker bifurcation in viscoelastic time-modulated Taylor-Couette flow by M Riahi, M HayaniChoujaa, S Aniss	Tu069: Effect of different wind velocity on phase transformation of absolute ethanol in capillary tube by L Bin, Y Ji	Tu088: Electrokinetic dynamics and resonance when electrical double layers entangle with surface acoustic waves by O Manor, O Dubrovsky, S Aremanda
16:00	Tu051: Reduced order models for supercritical and subcritical transition to rotating convection with rigid boundaries by S Sarkar, S Mandal, P Pal	Tu070: Effect of the shape of point-heated water drops on the flow instability by Y Kita	Tu089: Horseshoe vortex around a micro pillar governed by spontaneous meniscus formation by I Ueno, K Ozawa, H Nakamura, K Shimamura, GF Dietze, HN Yoshikawa, F Zoueshiagh, K Kurose
16:15	Tu052: Stability and flow laws in open foams, a porosity study by Y Jobic, M. Médale, F. Topin	Tu071: ACoolTPS – advanced cooling of high power microsystems using two-phase flows systems in complex geometries by GR Anjos, DBV Santos, P Valluri	Tu090: Periodic excitation of waves in a water filled annular channel with a submerged hill by ID Borcia, F-T Schön, U Harlander, R Borcia, M Bestehorn, S Richter
16:30	Tu053: Matchmaking shake: a parametric instability coupling longitudinal and transverse waves on rivulets by A Daerr, G. Le Lay	Tu072: Flow instability and dry out profile in flow boiling of binary mixtures in microchannel under low mass flux by A Widyatama, D Orejon, K Sefiane	Tu091: Perturbation theory for metal pad roll instability in rectangular reduction cells by P Hegde, GM Hortsmann
16:45	Tu054: Simultaneous bifurcations from D3 and D4 symmetric states in vertical natural convection by Z Zheng, LS Tuckerman, T M Schneider	Tu073: Bounds on the spreading radius in droplet impact: the inviscid case by LÓ Náraigh, A Amirfazli, M Bustamante, Y Hu	Tu092: Analyzing the survivability and investigating hydrodynamic nonlinearities in submersible buoy shaped point absorber wave energy converter by VM Brathikan, S Kalanithi, V Janarthanam
17:00	Tu055: Instability in Taylor-Couette flow past a deformable cylinder at low Reynolds number by A Khan, PP Chokshi	Tu074: Experimental study on the electrohydrodynamic instability between three immiscible liquids flowing in a microchannel by E Nur Soysal, AK Uguz, S Altundemir	Tu093: Integrating machine learning with CFD for accurate prediction of Susselt number in wall jet impingement by H Agarwal, A Lagwankar, L Chaplot, A Chandy

DAY 3 – Wednesday, 26 June 2024			
Morning Sessions			
09:00	Keynote 5: Prof George Karapetsas Chair: Dr Khushboo Pandey Larch Lecture Theatre		
	<u>Instabilities & Bifurcations 5</u> Chair: Prof Stephen Shaw Larch Lecture Theatre	<u>Jets, Turbulence & Transition</u> Chair: Prof Alexander Morozov Yew Lecture Theatre	<u>Bubbles, Threads & Films 1</u> Chair: Prof Camille Duprat Elm Lecture Theatre
09:45	W094: Energy harvesting regimes of a three-dimensional flapping flag: a numerical investigation by <i>B Nagy, S. Olivieri, R. Verzicco, F. Viola</i>	W110: The effects of wall compliance on the stability of jets and wakes by <i>R Poole</i>	W126: Galloping bubbles by <i>JH Guan, SI Tamim, CW Magoon, P Sáenz,</i>
10:00	W095: Experimental analysis of Saffman–Taylor instability in Hele-Shaw cell using photoelastic technique by <i>M Kawaguchi, Y Yokoyama, WKA Worby, RX Suzuki, Y Nagatsu, Y Tagawa</i>	W111: Stable production of fluid jets with arbitrarily small diameters via tip streaming by <i>JM Montanero, M Rubio, J Eggers, MA Herrada</i>	W127: How can a surfactant affect bubble bursting? By <i>EJ Vega, JM Montanero</i>
10:15	W096: Suppression of Marangoni-driven dry-out using parametric forcing by <i>IB Ignatius, B Dinesh, GF Dietze, R Narayanan</i>	W112: Numerical investigation on the formation of side-jets in light jets by <i>L Walter, J Fontane, G Nastro, D Donjat, O Léon</i>	W128: Cavitation microstreaming induced by pendent and sessile bubbles in water under confinement by <i>V Karma, S Pushpavanam,</i>
10:30	W097: Elastic instability in microserpentine channel at low Reynolds numbers by <i>YA Degirmenci, A Senyurek, L Biancofiore, K Nolan</i>	W113: Transition to turbulence in the stokes boundary layer. Part 1: Minimal seeds by <i>TS Eaves</i>	W129: Evolution of the surfactant monolayer in a bubble rising in water with traces of surfactant by <i>D Fernández-Martínez, JM Montanero, JM López-Herrera, MA Herrada</i>
10:45	W098: Temporal stability analysis of spiral Couette flow for small radius ratio by <i>MK Khandelwal</i>	W114: Transition to turbulence in the stokes boundary layer. Part 2: edge states by <i>J Sandoval, TS Eaves</i>	W130: Rayleigh-Plateau instability of surfactant-laden liquid nano-threads by <i>L Carnevale, P Deuar, Z Che, PE Theodorakis</i>
11:00	Coffee Break (Alder Lecture Theatre) Gold Sponsor: Dantec Dynamics Talk, Alder Lecture Theatre (11:05 to 11:25)		
11:30	W099: Primary instability in the wake of polygonal cylinders by <i>A Marshall, L Gan, D Sims-Williams</i>	W115: Internal wave instabilities and transition to turbulence in large aspect ratio domains by <i>I Sibgatullin, S Elistratov, T Dauxois</i>	W131: Surfactant-induced Marangoni effects on capillary waves and Worthington jets in bursting bubble applications by <i>P Pico, L Kahouadji, S Shin, J Chergui, D Juric, OK Matar</i>
11:45	W100: Translation and oscillation of a gas bubble under asymmetric deformation by <i>S Shaw</i>	W116: Fibre buckling in a confined co-flowing jet by <i>G Clément, SH Caballero, M Oléron, F Box, JD McGraw, M Labousse</i>	W132: Global stability analysis of hydrodynamic focusing in the presence of a soluble surfactant by <i>M Rubio MG Cabezas, JM Montanero, MA Herrada</i>
12:00	W101: Experimental bifurcation analysis of a deformable bubble using control-based continuation by <i>S Ayoubi, JVN Fontana, A. Juel, AB Thompson</i>	W117: Lift-up and self-sustaining process (SSP) in a Couette-Poiseuille flow by <i>T Liu, B Semin, R Godoy-Diana, JE Wesfreid,</i>	W133: The effect of viscoelasticity in a thin squeezed film by <i>U Akyüz, H Ahmed, L Lombardi, PL Maffettone, L Biancofiore</i>
12:15	W102: Mechanochemical waves in an active fluid film by <i>J Picardo, K Vijay Kumar</i>	W118: Subcritical transition to elastic turbulence in parallel shear flows: Recent progress by <i>M Lellep, M Linkmann, A Morozov</i>	W134: Primary instability of roll waves on thin films of non-Newtonian fluids down a slope by <i>F Depoilly, S Dagois-Bohy, S Millet, F Rousset, HB Hadid</i>
12:30	Lunch Break (Alder Lecture Theatre)		

DAY 3 - Wednesday, 26 June 2024

Afternoon Sessions

	<u>Instabilities & Bifurcations 6</u> Chair: Prof Rama Govindarajan Larch Lecture Theatre	<u>Contact Lines & Surface Interactions</u> Chair: Prof George Karapetsas Yew Lecture Theatre	<u>Droplets & Films 1</u> Chair: Dr Yutaku Kita Elm Lecture Theatre
13:30	W103: Kelvin-Helmholtz instability in a composite porous fluid system by <i>M Jadidi, Y Mahmoudi</i>	W119: Manipulating droplet jumping behaviors on hot microstructured surfaces - From vibration to explosion by <i>W Huang, L Zhao, J Cheng</i>	W135: Spreading of micellar films in the evaporation of emulsion droplets by <i>T Dong, K Kotsi, TK Xu, K Takeshi, M Alexander, I McRobbie, A Striolo, P Angeli</i>
13:45	W104: Observation of propagating trains of oscillons over Faraday waves by <i>S Kucher, JE Wesfreid, P Cobelli</i>	W120: Transforming auxetic metamaterials into superhydrophobic surfaces by <i>G McHale, A Alderson, GG Wells, R Ledesma-Aguilar, S Armstrong, M Meyari, E Carter, S Mandhani, C Sempregon, KE Evans</i>	W136: A thin film model for surfactant-mediated electrowetting: Role of bulk and surface charges by <i>S Goel, DS Pillai</i>
14:00	W105: Linear stability of aeroacoustic spinning waves trapped into an axisymmetric cavity by <i>D Özev, A Faure-Beaulieu, N Noiray</i>	W121: Drag reduction at high Péclet numbers in surfactant-contaminated superhydrophobic channels by <i>S Tomlinson, F Gibou, P Luzzatto-Fegiz, F Temprano-Coletto, OE Jensen, JR Landel</i>	W137: Falling liquid films on a "hole-board" by <i>A Ramamonjy, M Periyapattana-Iyer, L Vincent, M Wattiau, H Duval</i>
14:15	W106: The effect of finite compliant panels on the development of linear disturbances in the rotating disk BL by <i>S Almammary, C Thomas, Z Hussain</i>	W122: Viscoelastic effects in three-dimensional sliding contacts by <i>H Ahmed, L Biancofiore</i>	W138: Instabilities in falling thin liquid films laden with soluble surfactants above CMC by <i>A Katsivria, DT Papageorgiou</i>
14:30	W107: Tuning Marangoni bursting for micro/nano fabrication by <i>Z Wang, T Nagata, C Inoue</i>	W123: The liquid-solid Amontons' laws: Friction coefficients for droplets on solids by <i>H Barrio-Zhang, G McHale, N Gao, G Wells, R Ledesma-Aguilar</i>	W139: Molecular simulation of surface-directed phase separation by <i>SSH Zaidi, PK Jaiswal, M Priya, S Puri</i>
14:45	W108: Amplifying fluid dynamics: harnessing surface acoustic waves for nano-channel flow enhancement by <i>S Datta, G Dayao, R Pillai</i>	W124: Wetting and evaporation of binary mixture droplets on hydrophilic decorated surfaces by <i>KM Al Balushi, G Duursma, P Valluri, K Sefiane, D Orejon</i>	W140: Chemically-active droplet swimming near a wall by <i>S Michelin, N Desai</i>
15:00	W109: Heterodyn interferometry to unravel capillary interactions in particle laden interfaces by <i>G Plohl, K Schulte, C Planchette</i>	W125: Effect of needle and dosing parameters on contact angle hysteresis by <i>J To, K Sefiane, R Ledesma Aguilar, D Orejon</i>	W141: Drop behavior on heterogeneous ratchet-structured substrate vibrated harmonically in lateral direction by <i>R Borcia, ID Borcia, M Bestehorn</i>
15:15	Introduction to Next BIFD and Coffee Break (Alder Lecture Theatre)		
15:30	Enjoy Edinburgh (Free time)		
19:00	Gala Dinner at Dynamic Earth		

DAY 4 - Thursday, 27 June 2024

Morning Sessions

09:00	<p align="center">Keynote 6: Prof Julia Yeomans Chair: Dr Rodrigo Ledesma-Aguilar Larch Lecture Theatre</p>		
	<p><u>Droplets 2</u> Chair: Prof Stephen Wilson Larch Lecture Theatre</p>	<p><u>Particles & Suspensions 1</u> Chair: Prof Roberto Zenit Yew Lecture Theatre</p>	<p><u>Convection 1</u> Chair: Dr Marilize Everts Elm Lecture Theatre</p>
09:45	Th142: Shear-induced depinning of thin droplets on rough substrates by S Kumar, NV Mhatre	Th163: Rheology of phoretic suspensions in shear flows by P Vinze, S Michelin	Th184: Intermittent turbulence in a Rayleigh-Bénard convection problem by DM Martinez, H Herrero, F Pla
10:00	Th143: Impacts of liquid drops: when do gas microfilms prevent merging? by P Lewin-Jones, D Lockerby, J Sprittles	Th164: Colloidal deposits from evaporating sessile droplets: Meniscus touchdown and arbitrary contact lines by N Coombs, M Chubynsky, J Sprittles	Th185: Well-posedness and stability of slightly compressible Boussinesq's flow in Darcy-Bénard problem by F Capone, G Amone
10:15	Th144: The effect of imbibition on the deposition from an evaporating droplet on a porous substrate by D Craig, AW Wray, K Sefiane, SK Wilson	Th165: Electrically and magnetically driven instabilities and microscale patterns by JVI Timonen	Th186: Stability of penetrative convective currents in local thermal nonequilibrium by JA Gianfrani, G Amone, F Capone
10:30	Th145: Desiccation of human blood droplets: Joint effect of droplet volume and substrate inclination by R Bhardwaj, S Chatterjee, B Kumar, A Agrawal	Th166: Numerical simulations of in-line spheroids settling in a linearly stratified fluid by A Abdal, L Kahouadji, S Shin, J Chergui, D Juric, CCP Caulfield, OK Matar	Th187: Analysis of lift coefficient and trailing vortices properties at low Reynolds number with spanwise deformation by PS García, M Garrido-Martin, E Duran, P Gutierrez-Castillo, C del Pino
10:45	Th146: Hollow droplet impacting on inclined solid surfaces: A combined experimental and numerical study by MM Nasiri, M Tembely, C Moreau, A Dolatabadi	Th167: Temporal evolution of coherent structures formed by low-Stokes number particles in a high aspect ratio liquid bridge by S Noguchi, I Ueno	Th188: Computation of bifurcation diagrams in 3D Rayleigh-Bénard configurations involving Bingham fluids by M Medale, M Keddar, B Draqui
11:00	<p align="center">Coffee Break (Alder Lecture Theatre)</p>		
11:30	Th147: Electrohydrodynamic interactions of droplet pairs by M McDougall, D Das, SK Wilson	Th168: Complex morphology on the underside of a Leidenfrost-levitated hydrogel sphere by VLD Melian, I Lenton, J Binysh, A Souslov, S Waitukaitis	Th189: Thermal convection due to internal heating in liquid metal battery by A Hiremath, I Mutabazi, HN Yoshikawa
11:45	Th148: Dynamics through pitchfork bifurcations of droplets on smooth patterns by M Pradas, M Ewetola, M Haynes, R Ledesma-Aguilar	Th169: Instabilities and pattern transitions in co-rotating suspension Taylor-Couette flow by M Ghosh, M Alam	Th190: The dry salt lake instability by C Beaume, MR Threadgold, L Goehring
12:00	Th149: The evaporation of arrays of non-circular droplets by A Wray, M Moore	Th170: Chaotic orbits of multiple immersed ellipsoids by A Boyd, P Valluri, D Scott, M Sawyer, R Govindarajan	Th191: Anisotropy effect on the thermal instability for a porous channel with symmetric wall heat fluxes by M Celli, A Barletta, PV Brãndao, S Lazzari, E Ghedini
12:15	Th150: Evaporation dynamics of multiple sessile droplets by J Kilbride, FF Ouali, DJ Fairhurst	Th171: Particle deposition from a sessile droplet evaporating according to the one-sided model by HT Sharp, SK Wilson, AW Wray	Th192: The effect of a non-uniform heating on the axisymmetric Rayleigh-Bénard instability by L Biancofiore, D Ozev, F Gallaire
12:30	<p align="center">Lunch Break (Alder Lecture Theatre)</p>		

DAY 4 - Thursday, 27 June 2024

Afternoon Sessions

	<u>Active Matter</u> Chair: Prof Julia Yeomans Larch Lecture Theatre	<u>Particles 2 & Bio Flows</u> Chair: Prof Halim Kusumaatmaja Yew Lecture Theatre	<u>Convection 2</u> Chair: Dr Khushboo Pandey Elm Lecture Theatre
13:30	Th151: Transport and delivery by active materials in complex flows by A Mathijssen (WITHDRAWN)	Th172: Sedimentation of a nematic emulsion by Y Mimoh, S Michelin	Th193: Thermoelectric convection in microgravity environment by I Mutabazi, C Kang, EB Barry, H Yoshikawa
13:45	Th152: Activity-induced self-constraint of nematic defects and flow structures by T Shendruk, LC Head, C Doré, K Thijssen, T López-León	Th173: Liquid-liquid dispersions within milli-scale symmetric confined impinging jets by C Duan, P Angeli	Th194: Finite-amplitude solutions & multistability in magnetoconvection by M McCormack, A Teimurazov, O Shishkina, M Linkmann
14:00	Th153: Dynamics of artificial microswimmers in soft fluidic confinements by SS Sontakke, A Kajampady, R Dey	Th174: Violation of Stokes-Einstein relation in a one-component fluid interacting via MIE potential by M Priya, S Suvama	Th195: Exploring state space pathways leading to spiral defect chaos by CH Chan, MZ Hossain, SJ Sherwin, Y Hwang
14:15	Th154: Flow states of two dimensional active gels driven by external shear by T Powers, W Luo, A Baskaran, RA Pelcovits	Th175: Oscillations and instabilities in granular surface flows by A Tripathi, S Patro, Soniya	Th196: 3D magneto-convective instabilities of liquid metal flow in a rectangular cavity with a coaxial circular cooling pipe by B Lyu, L Buehler, C Koehly, C Mistrangelo
14:30	Th155: Active fluid-induced dynamics of passive polymers by Z Valei, TN Shendruk	Th176: Competing aggregation and iso-density equilibrium lead to band patterns in density gradients by A Darras, F Maurer, C Romero, N Lerch, T John, L Kaestner, C Wagner	Th197: Solutal convection in liquid metal and molten salt batteries by T Weier, C Duczek, S Landgraf, P Personnetaz, N Weber
14:45	Th156: Simulating collective bacterial swarming in sparse systems by F de Tournemire, K Thijssen, G Melaugh, TN Shendruk	Th177: Red blood cell shape dynamics in time-dependent capillary flow by C Wagner, SM Recktenwald, K Graessel, FM Maurer, T John, S Geke	Th198: Instabilities in a non-isothermal nanofluid layer in a gravity field by R Gandhi, A Nepomnyashchy, A Oron
15:00	Th157: Opposing vortices characterize the average flow around 3D free-swimming sperm by X Ren, P Hernández-Herrera, F Montoya, A Darszon, G Corkidi, H Bloomfield-Gadélha	Th178: Impact of hole size on pattern formation in lifted Hele-Shaw cells by D K Roughton-Reay, P Agrawal, V Barrioz	Th199: Subcritical and heteroclinic bifurcations in Rayleigh-Bénard convection of shear-thinning fluids confined in Hele-Shaw cell by OM Najib, PV Brandão, SC Hirata, LS de B Alves
15:15	Coffee Break (Alder Lecture Theatre)		
	<u>Convection 3</u> Chair: Dr Rodrigo Ledesma-Aguilar Larch Lecture Theatre		
15:45	Th158: A model of localized convection appearing in Euglena suspensions by H Yamashita, T Suzumura, T Yamaguchi, NJ Suematsu, M Lima	Th179: Elastocapillary phenomena inside biological cells by H Kusumaatmaja, A Brown, X Ma, L Frigerio, R Knorr	Th200: Nonlinear dynamics of steady oblique rolls in rotating magnetoconvection by L Sharma, P Pal, M Ghosh
16:00	Th159: Multiple states and transition to chaos in quasi-static magnetoconvection by SH Bader, V Kannan, X Zhu	Th180: CFD analysis of stenosed artery and plaque rupture risk stratification using in-house CFSSI solver by A Lagwankar, S Morab, J Muralidharan, A Sharma	Th201: Rayleigh-Benard-Marangoni convection in a binary fluid system by A Dubey, S Mishra, SV Diwakar, S Amiroudine
16:15	Th160: Elasto-inertial instabilities and turbulence in Taylor-Couette flows by T Boulaferis, S Balabani	Th181: Dynamics of mucus films in ciliated lung airways by S Hazra, JR Picardo	Th202: Convection patterns in an annular cavity subjected to a radial temperature gradient by A Prigent, Z Ntarmouchant, I Mutabazi
16:30	Th161: The effect of aspect ratio on mixed convective developing laminar flow through rectangular channels by M Everts, N Harris, KJ Craig	Th182: Role of asymmetric acinar wall motion on the particle transport in the lung acinus by P Kumar, P Jutur, A Roy, M Panchagnula	Th203: Sensitivity analysis of the first instability in a differentially heated square cavity by J Williams, UA Qadri, HS Thorne
16:45	Th162: Surface acoustic wave induced flow in porous media by O Manor, G Unoh, J Friend	Th183:	Th204

DAY 5 - Friday, 28 June 2024 (Open Colloquia) Larch Lecture Theatre	
09:00	Tea and Coffee
09:15	OC001: Dr Daphne Lemasquier: <i>Fluid Dynamics of the Outer Solar System: from Gas Giants to Icy Satellites</i> Chair: Dr Rachel Schwind (Larch Lecture Theatre)
10:15	OC002: Prof David Quéré: <i>Bouncing Droplets</i> Chair: Prof Halim Kusumaatmaja (Larch Lecture Theatre)
11:15	Coffee Break
11:45	OC003: Prof KR Sreenivasan: <i>Changes in outlook on turbulent wall flows over the past forty years</i> Chair: Prof Alexander Morozov (Larch Lecture Theatre)
12:45	Closing and Lunch (own arrangements)
13:45	Lab Tours (see below)

DAY 5 - Friday, 28 June 2024 Lab Tours	
13:45	Start from Nucleus Entrance (PhD students will take you around)
13:50	Wetting, Interfacial Science and Engineering Laboratory, Process Lab, Sanderson Building
14:10	Chemical Engineering Labs, Sanderson Building
14:40	Two Phase Flows and Heat Transfer Laboratory, Fleeming Jenkin Building
15:00	Small Research Facility for Multiphase Flows at High Pressure and Temperature, Fleeming Jenkin Building
15:20	FloWave Ocean Energy Research Facility, Max Born Crescent
15:45	Return back to Nucleus Entrance