

Room	1.218	1.219	2.218	2.220	4.204	4.205	Theatre B
Monday 08:45-09:15							Welcome and opening ceremony <i>Chair: P. Duck</i>
Monday 09:15-10:00							Euromech Fluid Mechanics Lecture: F. Busse <i>Chair: P. Huerre</i>
Monday 10:30-12:00	Vortices I <i>Chair: M. Foster</i>	Drops and Droplets I <i>Chair: J. Eggers</i>	Reactive Flow I <i>Chair: G. Milne</i>	Contributed Bio-fluids I <i>Chair: M. Heil</i>	Chaotic Mixing <i>Chair: P. Duck</i>	Deposition and Sedimentation <i>Chair: J. Hinch</i>	Boundary-Layer Instability <i>Chair: A. Ruban</i>
Monday 13:30-14:15							Invited lecture: A. Dowling <i>Chair: W. Schroeder</i>
Monday 14:30-15:30	Vortices II <i>Chair: M. Foster</i>	Drops and Droplets II <i>Chair: J. Eggers</i>	Reactive Flow II <i>Chair: J. Dold</i>	Contributed Bio-fluids II <i>Chair: N. Hill</i>	Receptivity <i>Chair: J. Gajjar</i>	Micro/Nano channels <i>Chair: P. Marmottant</i>	Instability of Rotating Flow I <i>Chair: R. Hewitt</i>
Monday 16:00-17:30	Stratified Flow <i>Chair: C. Caulfield</i>	Multiphase Flow I <i>Chair: A. Hazel</i>	Waves <i>Chair: D. Abrahams</i>	Contributed Bio-fluids III <i>Chair: M. Heil</i>	Turbulent Flow <i>Chair: B. Hof</i>	Analytical solutions <i>Chair: D. Harris</i>	Non-modal Instability <i>Chair: P. Manneville</i>

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Tuesday							
Tuesday 08:30-09:15							Invited lecture: E. Guazzelli <i>Chair: T. Mullin</i>
Tuesday 09:15-10:00							Invited lecture: J. Eggers <i>Chair: T. Kowalewski</i>
Tuesday 10:30-12:00	Wake and Shear-flow Instability I <i>Chair: S. Stephen</i>	Mini-symposium: Granular Media and Colloids I <i>Chair: M. van Hecke</i>	Rotating and/or Stratified Flow <i>Chair: G. van Heijst</i>	Numerical Simulation <i>Chair: A. Hazel</i>	Turbulent Jets and Boundary Layers <i>Chair: I. Castro</i>	Particle-laden Flow I <i>Chair: M. Foster</i>	Mini-symposium: Internal Bio-fluids I <i>Chair: O. Jensen</i>
Tuesday 13:30-15:30	Global Instability <i>Chair: P. Huerre</i>	Mini-symposium: Granular Media and Colloids II <i>Chair: M. van Hecke</i>	Instability of Rotating Flow II <i>Chair: J. Healey</i>	Environmental Flow <i>Chair: P. Davies</i>	Turbulence Modelling I <i>Chair: G. Lane-Serff</i>	Bubbles I <i>Chair: L. Limat</i>	Mini-symposium: Internal Bio-fluids II <i>Chair: O. Jensen</i>
Tuesday 16:00-17:30	General Instability I <i>Chair: L. Tuckerman</i>	Mini-symposium: Granular Media and Colloids III <i>Chair: M. van Hecke</i>	Heat Transfer I <i>Chair: J. Daou</i>	General <i>Chair: R. Hewitt</i>		Interfacial Waves <i>Chair: S. Wilson</i>	Mini-symposium: Internal Bio-fluids III <i>Chair: O. Jensen</i>

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Wednesday							
Wednesday 08:30-09:15							Invited lecture: D. Henningson <i>Chair: G. Worster</i>
Wednesday 09:15-10:00							Invited lecture: A. Thess <i>Chair: H. Kuhlmann</i>
Wednesday 10:30-12:00	Multiphase Flow II <i>Chair: A. Prosperetti</i>	Mini-symposium: Nature Inspired I <i>Chair: C. Tropea</i>	Thin Film Flow <i>Chair: N. Gray</i>	Instability of Internal Flow <i>Chair: D. Tordella</i>	Turbulence Modelling II <i>Chair: G. Lane-Serff</i>	Particle-laden Flow II <i>Chair: P. Thomas</i>	Mini-symposium: Subcritical Flow Instability I <i>Chair: T. Mullin</i>
Wednesday 13:30-15:30	General Instability II <i>Chair: M. Nagata</i>	Mini-symposium: Nature Inspired II <i>Chair: T. Pedley</i>	Free Surface Flow <i>Chair: J. Billingham</i>	Compressible Flow <i>Chair: S. Braun</i>	Numerical Methods <i>Chair: A. Cliffe</i>	Bubbles II <i>Chair: L. Limat</i>	Mini-symposium: Subcritical Flow Instability II <i>Chair: H. Kuhlmann</i>
Wednesday 16:00-17:30	Vortices III <i>Chair: R. Kerr</i>	Mini-symposium: Nature Inspired III <i>Chair: C. Tropea</i>	Bodies in Fluids <i>Chair: C. del Pino</i>	Boundary Layers <i>Chair: A. Ruban</i>	Roughness and Drag Reduction in Turbulent Flow <i>Chair: I. Castro</i>		Mini-symposium: Subcritical Flow Instability III <i>Chair: A. Juel</i>

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Thursday							
Thursday 09:15-10:00							Invited lecture: R. Verzicco <i>Chair: G. van Heijst</i>
Thursday 10:30-12:00	Vortices IV <i>Chair: R. Kerr</i>	Micro/Nano-fluidics <i>Chair: A. Juel</i>	Heat Transfer II <i>Chair: J. Daou</i>	Viscous Flow Past Obstacles <i>Chair: P. Duck</i>	Wake and Shear-flow Instability II <i>Chair: J. Gajjar</i>	Industrial Flow <i>Chair: G. Worster</i>	Separated Flow <i>Chair: S. Braun</i>
Thursday 13:30-14:15							Invited lecture: P. Hosoi <i>Chair: T. Pedley</i>
Thursday 14:15-14:30							Closing and Young Scientist Award <i>Chair: P. Duck</i>

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Monday 08:45-09:00							
Monday 09:00-09:15							
Monday 09:15-09:30							‘What Can Thermal Convection Teach Us about the Nature of Turbulence?’ F. Busse
Monday 09:30-09:45							
Monday 09:45-10:00							
Monday 10:30-10:45	‘Investigations Of Vortex Shedding Processes At The End Of The Parallel-plate Stack In The Oscillatory Flow’ L. Shi	‘Reconstruction Of The Droplet Size Distribution In Flows With Single Or Multi-component Condensation’ R. Sidin	‘Ignition By A Hot Gas Stream’ J. Daou	‘Modelling Ciliary Driven Flows, With Application To The Lung And Development’ E. Gaffney	‘Numerical Investigations Of Baker’s Map Based Chaotic Mixers’ P. Carrière	‘An Erosion-deposition Model For Granular Beds Sheared By Turbulent Flows’ F. Charru	‘Stability Of The Boundary Layer On A Compliant Rotating Disc’ S. Stephen
Monday 10:45-11:00	‘Vorticity Dynamics In The Vortex Ring State Of A Descending Rotor’ R. Green	‘Coalescence Of Droplets On A Wall With Contact-angle Hysteresis’ M. Maglio	‘An Energy Approach For Triple Flame.’ L. Glangetas	‘History-dependent Cell And Microbead Adhesion Under Varying Shear’ O. Jensen	‘Inertia-induced Adiabatic Structures In Time-periodic Laminar Flows’ Z. Pouransari	‘Fluctuations, Fronts, And Stratification In Sedimentation: Experiments’ L. Bergougnoux	‘The Crossflow Instability Of The Boundary Layer On A Rotating Cone’ Z. Hussain

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Monday 11:00-11:15	‘3D Euler Circulation About A 2D Symmetry Plane’ R. Kerr	‘Some Aspects Of Drops Impacting On Solid Surfaces’ J. Sprittles	‘Pulsating Spray-flame Interacting With Acoustics’ P. Haldenwang	‘Micro-vascular Networks Pressure Distribution In The Brain’ R. Guibert		‘Deposition Of Cohesive Sediment From Turbulent Plumes’ G. Lane-Serff	‘Bifurcations In Separated Boundary Layer Flows.’ J. Gajjar
Monday 11:15-11:30	‘Numerical Simulation Of A Confined Swirling Jet Impinging Onto A Smooth Wall’ C. del Pino	‘On The Generation Of Drops At A Fluid-fluid Interface’ W. Phillips	‘The Effect Of Acoustic Forcing On Heat Release In Self-excited Round Jet Diffusion Flames’ L. Li	‘The Air-liquid Flow In Bifurcating Networks Of Micro-channels’ M. Baudoin		‘Falling Clouds Of Particles In Viscous Fluids’ B. Metzger	‘Low-frequency Oscillations In A Separating Boundary-layer Flow’ U. Ehrenstein
Monday 11:30-11:45	‘The Dynamics Of The Swirling Flow With Open Boundaries’ E. Vyazmina	‘Characterization Of Droplets Entrainment In Gas-liquid Horizontal Pipe Flow’ S. Boulesteix	‘Stochastic Modelling Of Turbulent Reactive Flows With Particle Formation With The Species-number Density Pdf Approach’ S. Rigopoulos	‘Anomalous Bubble Propagation In Elastic Tubes’ A. Juel		‘Falling Jets Of Particles In Viscous Fluids’ F. Pignatel	‘Noise Generation In An Unstable Boundary-layer Flow Over A Flexible Wall’ M. Gobert
Monday 11:45-12:00	‘Velocity Profile Influence On Spiral Vortex Breakdown In Diffuser’ P. Rudolf	‘Surface-roughness Effects On Droplet Impact’ A. Ellis	‘Some Aspects Of Wildfire Behaviour’ J. Dold	‘Measurements Of Oscillating Flow In Flexible Pipes’ W. Schroeder		‘Velocity Fluctuations From Randomly Oscillating Spheres’ B. Eckhardt	‘Direct Numerical Simulation Of The Linear Stability Of A Free Convective Boundary Layer Flow’ M. Paul

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Monday 13:30-13:45							‘Aeroacoustics’ A. Dowling
Monday 13:45-14:00							
Monday 14:00-14:15							
Monday 14:30-14:45	‘The 3D Structure Of A Dipole In Shallow Layers Of Fluid’ R. Akkermans	‘Sliding Of A Drop On A Wall And Pinch-off By Shear Flow’ M. N. H. Gilani	‘Wildfire Simulation And Challenges In Modelling Heat Transfer Behaviour’ G. Milne	‘Local And Global Instabilities Of Flow In A Flexible-walled Channel’ P. Stewart	‘A Receptivity Approach To Predicting Boundary Layer Transition’ M. Johnson	‘Liquid Flows Through Nanopores: From Hydrodynamic To Atomistic Motion’ M. Chinappi	‘Bifurcation Characteristics Of The Swirling Annular Flow In Transition’ V. Vasanta Ram
Monday 14:45-15:00	‘Dipole-wall Collision In A Shallow Fluid Layer’ L. Kamp	‘Evaporating Droplets’ S. Wilson	‘Laboratory Scale Experimentation And Large Eddy Simulation Of Crown Fire Initiation In Shrublands By Surface Fire’ S. Mahalingam	‘Numerical Simulation Of Air Flow In The Human Respiratory System Based On A Multi-model Approach’ L. Baffico	‘Boundary-layer Receptivity To External Sound Waves’ V. Zametaev	‘Growth And Collapse Of A Vapor Bubble In A Microtube’ C. Sun	‘Linear And Nonlinear Analyses Of Rotating Plane Couette Flow Subject To A Spanwise Translational Oscillatory Boundary Motion’ S. Okino

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Monday 15:00-15:15	‘3D Effects On A Monopolar Vortex In A Rotating Shallow Layer’ M. Duran-Matute	‘Shape Transitions Of Drops Sliding Down A Plane’ L. Limat	‘A Non-local Effect In The Spread Of A Wildfire’ A. Zinoviev	‘Oscillating Flow In A Deformed Sphere: Application To Motion Of The Vitreous Humour’ J. Siggers	‘Unexpected Unsteady Instability In DNS Computations Dedicated To 3D Localized Receptivity’ E. Piot	‘Rarefaction Effects In Micronozzles’ P. Spazzini	‘More On The Low Frequency Mode Of A Rotating Cylinder’ F. Giannetti
Monday 15:15-15:30	‘Non-linear Evolution Of A Vortex Pair In A Stratified Fluid’ P. Billant	‘Yield Stress Drops’ G. German	‘Analysis Of The Potential Risk Associated To Glowing Embers In Prescribed Burning Of Felling Debris In Stands Of Hazel (corylus Avellana)’ A. Agueda	‘Application Of The Finite-volume Method To Fluid-structure Interaction Analysis’ M. Yates	‘Multimode Decomposition Of A DNS Signal Into 3D Tollmien-schlichting-like Waves’ G. Casalis	‘Vibration And Bounding Wall Structure Effects On A Flow In Nano-channels’ A. Abramyan	‘The Effects Of Suction On The Stability Of The Bodewadt Boundary Layer’ N. Culverhouse
Monday 16:00-16:15	‘Temporal Variation Of Non-ideal Plumes With Changes In Driving-source Conditions’ M. Scase	‘Three Component Miscible Viscous Fingering Of Finite Sample With Linear Adsorption’ M. Mishra	‘Inertial Wave Collapse’ W. Herreman	‘Mathematical Modelling Of Blood Flow In Curved Arteries With Elastic Walls’ S. Payvandi	‘Roll Cells In Turbulent Plane Couette Flow With System Rotation’ T. Tsukahara	‘Global Existence And Regularity Of A Family Of Periodic Incompressible Navier-stokes Flows’ M. Bustamante	‘Algebraic Versus Exponential Spatial Growth In Swept-wing Flow’ J. Pralits
Monday 16:15-16:30	‘Exact Solutions For A Turbulent Buoyant Plume Rising From A Circular Source In An Unstratified Quiescent Environment’ G. Michaux	‘The Onset Of Three-dimensionality In Inclined Film Flows’ V. Leontidis	‘Observations On The Wave Number Spectrum And Evolution Of An Internal Wave Attractor’ J. Hazewinkel	‘Internal Flow Dynamics Of Aneurysms - Validation Of Numerical Simulations And Impact Of Stent’ S. Seshadhri	‘How To Stir Turbulence’ H. Cekli	‘Thermo-fluid Dynamics Of The Unsteady Channel Flow’ R. Tognaccini	‘Convective Instability And Transient Growth In Steady And Oscillatory Separated Flows’ D. Barkley

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Monday 16:30-16:45	‘Buoyancy Effects In The Process Of Jet Formation’ C. Marugan-Cruz	‘The Steady Propagation Of An Air Finger Into A Rectangular Tube’ A. de Lozar	‘Hydraulic Flow Through A Channel Contraction’ O. Bokhove	‘Mixing In Steady Flow In Small Amplitude Helical Pipes’ A. Cookson	‘The Development Of Turbulent Pipe Flow’ J. Monty	‘Study Of High-symmetric 3D Euler Flows With Clebsch Potentials’ K. Ohkitani	‘Linear And Non-linear Transient Behaviour Of A Separated Flow’ S. Cherubini
Monday 16:45-17:00	‘Gravity Currents Near The Temperature Of Maximum Density’ A. Kay	‘Multiphase-electrospinning Of Colloidal Nanofibers’ F. Grossmann	‘On Uniqueness In The Linear Problem Of Ship Waves’ O. Motygin	‘LES Of Physiological Pulsatile Flow In A Model Stenosis’ M. Molla	‘Curvature Effects In Cartesian Coordinates’ G. El Khoury	‘Influence Of Density Step On The Local Structure Of A Strain Flow’ M. Gonzalez	‘Global Optimal Perturbation And Transient Growth Over A Backward Facing Step’ G. Dergham
Monday 17:00-17:15	‘Added Mass For Motion In Density-stratified Fluids’ B. Voisin	‘A Two-fluid Model For Violent Aerated Flows’ F. Dias	‘A Generalization Of Benjamins Theory For Internal Waves In Deep Fluids’ O. Derzho	‘A Fluid Mechanical Analysis Of Platelet Aggregation In The Thrombosis Test Tube’ T. Akinaga	‘Absence Of Small-scale Fluctuations Of High-prandtl Number Buoyant Scalars In Stratified Turbulence’ H. Hanazaki		‘Transient Growth Of Perturbations In An Expanding Pipe’ C. Cantwell
Monday 17:15-17:30	‘The Structure And Efficiency Of Mixing In Complex Density Profiles’ A. Lawrie	‘A Moving Mesh Finite Element Method For Two-phase Flows With Insoluble Surfactants’ S. Ganesan			‘Cross Correlations Between Velocity And Pressure Fluctuations In The Open Cavity Flow’ A. Voskoboinick		‘Non-modal Instability Of Mixing Layer Flow’ H. Vitoshkin

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	Tuesday						
Tuesday 08:30-08:45							‘Particulate pipe flow’ E. Guazzelli
Tuesday 08:45-09:00							
Tuesday 09:00-09:15							
Tuesday 09:15-09:30							‘The role of singularities in hydrodynamics’ J. Eggers
Tuesday 09:30-09:45							
Tuesday 09:45-10:00							

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Tuesday 10:30-10:45	‘Symmetric And Asymmetric Shedding Modes In The Wake Of Axisymmetric Objects.’ D. Fabre	‘Experimental investigation of state variables in a dense granular layer’ F. Lechenault	‘Oceanographic Coastal Currents Over Bottom Slopes’ S. Gregorio	‘Simulations Of Turbulence Transition In Long Pipes’ D. Moxey	‘Turbulence Structure At An Electrodeposition Surface Induced By Jet Arrays With Random Firing.’ S. Delbos	‘Micro Ripples, Sand Ripples And Their Universal Wavelength Scaling’ P. Thomas	‘Dynamics and rheology of vesicle and red blood cell suspensions’ C. Misbah
Tuesday 10:45-11:00	‘Impulse Response In A Subcritical Cylinder Wake’ C. Marais		‘Experimental Evidence Of Internal Solitary Wave-induced Global Instability In Shallow Water Benthic Boundary Layers’ P. Davies	‘The Computation Of Unsteady Turbulent Flow Structures In Rotating Cavities’ H. Iacovides	‘Theoretical And Experimental Study Of Mixing At External Boundary Of Submerged Turbulent Jet’ A. Eidelman	‘Sediment Waves: Coupled Flow/sediment-bed Instability In Turbidity Currents’ L. Lesshafft	
Tuesday 11:00-11:15	‘Centrifugal Instabilities In The Wake-dominated Curved Compressible Mixing Layers’ L. Lin	‘Start And Stop Of An Avalanche In A Granular Medium Subjected To An Inner Water Flow’ P. Philippe	‘Two-layer Obliquely-rotating Shallow Water Equations With Complete Coriolis Force’ A. Stewart	‘Flow Structure In An Inclined And Confined Gravity Current’ Y. Hallez	‘Measurement Of Velocity And Acceleration In Turbulent Jet With A Laser Doppler Velocity Profile Sensor’ K. Shirai	‘Evolution Of The Particle Concentration Profile In A Dilute Suspension Flow Through The Entry Region Of A Channel’ A. Osipov	‘When Red Blood Cells Tumble, Swing And Roll !’ M. Abkarian
Tuesday 11:15-11:30	‘Multiscale Analysis Of Long Three-dimensional Perturbation’ D. Tordella	‘Buoyancy Driven Convection In Vertically Shaken Granular Matter: Experiment, Numerics, And Theory’ D. Lohse	‘Coriolis Effects In Rotating Hele-shaw Cell.’ H. Gadelha	‘Numerical Simulation Of Laminar Flow Instabilities In Tubes With Wire Coil Inserts’ D. Muñoz-Esparza	‘Wall Pressure Fluctuations In Non-equilibrium Turbulent Boundary Layers: A Multivariate Wavelet Analysis’ R. Camussi	‘Segregation Of Heavy Particles In A Turbulent Flow’ R. IJzermans	‘Motion Of A Capsule In A Simple Shear Flow: Coupling Of Finite Element And Boundary Integral Methods’ J. Walter

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Tuesday 11:30-11:45	‘Absolute Instability Of Light Jets Emerging From Circular Injector Tubes’ W. Coenen	‘Shear zones and wall slip in the capillary flow of concentrated colloidal suspensions’ L. Isa	‘Spin-up In A Torus’ R. Hewitt	‘Numerical Simulation Of Faraday Waves’ N. Perinet	‘Scaling Laws For Plane And Axisymmetric Turbulent Boundary Layer Flows At Pressure Gradients’ I. Vigdorovich	‘Lagrangian Dispersion Of Inertial Particles In Turbulent Swirled Flow’ C. Marchioli	‘Fluid Mechanical Study On The Material Exchange Across Microvessel Walls’ M. Sugihara-seki
Tuesday 11:45-12:00	‘On The Instability Of Vortices Embedded In Shear Flows’ P. Hall		‘Appearance Of Vortex Multiplets In Lid-rotated Cavity Flow’ V. Okulov	‘Numerical Investigation Of Internal Wave Breaking Near Obstacles’ S. Yakovenko	‘Deterministic Turbulence And Its Application’ V. Borodulin	‘Composite Two-fluid-pdf Models For Particle Transport In Bounded Flows’ P. van Dijk	‘Interstitial Fluid Movement And Its Interaction With Extracellular Matrices In Tissue Deformation’ W. Wang
Tuesday 13:30-13:45	‘Global Mode Analysis In The Development Region Of A Rotating Hagen-poiseuille Flow.’ L. Parras	‘Wet Granulates Under Shear’ M. Brinkmann	‘Dynamics Of A Fluid Inside A Precessing Cylinder’ P. Meunier	‘Natural Ventilation Of Buildings: Time-dependent Flows In An Emptying Filling Box In The Presence Of Steady Opposing Wind’ I. Coomaswamy	‘High-resolved Simulations Of Turbulent Thermal Convection In Domains With Interior Boundaries’ O. Shishkina	‘Satellite Bubbles In The Collapse Of Axisymmetric Cavities And High Speed Worthington Jets’ J. Gordillo	‘Simulation Of Flow In An Idealised Thoracic Aorta: Influence Of Flow Parameters On Wall Shear Stress Patterns And Its Relation To Atherosclerotic Lesions’ A. Kazakidi
Tuesday 13:45-14:00	‘Three-dimensional Linear Stability Analysis Of Lid-driven Cavity Flow’ L. Marino	‘Resuspension By A Droplet’ S. Dalziel	‘Experimental Evidence Of The Strato-rotationnal Instability’ P. Le gal	‘Large-eddy Simulation For Flow And Dispersion In Urban Streets’ Z. Xie	‘Stochastic Modeling Of Evaporating Sprays’ G. Anand	‘Dynamics Of Bubble Pinch-off In A Stagnant Water Pool’ R. Bolanos-Jimenez	‘Instability Analysis Of Blood Flows In Stenosis With Compliant Walls’ Y. Hoarau

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Tuesday 14:00-14:15	‘Global Stability Analysis Of Base-bleed As A Wake Control Mechanism At Supercritical Reynolds Numbers’ E. Sanmiguel-Rojas	‘Jamming And Flows Of Dense Noncolloidal Suspensions’ G. Ovarlez	‘Circular And Spiral Waves In A Batchelor Flow Between A Rotating And A Stationary Disk’ S. Poncet	‘Laboratory Experiments On Atmospheric Rotors’ D. Etling	‘Dispersion Of Inertial Particles In Stratified Turbulence’ M. Van Aartrijk	‘Spherically Converging And Diverging Shock Waves In Collapsing Bubbles’ P. Spelt	‘Analysis Of Flow Disturbances In Diseased Arteries Using Two-equation Transitional And Turbulence Models’ F. Tan
Tuesday 14:15-14:30	‘Global Linear Stability Of Plane Confined Wakes And Jets’ O. Tammisola	‘Universal Gelation of Particles with Short-ranged Attraction’ P. Lu	‘Experimental Characterization Of Near Transition Region In Rotating-disk Boundary Layer’ B. Pier	‘Instabilities And Pattern Formation In Phase-separating Uids’ J. Vollmer	‘Gas Transfer Through The Air-water Interface With Far-field Homogeneous Turbulence In The Water Phase’ -. Herlina	‘Interaction Of A Shock Wave With Multiple Gas Bubbles In Water’ S. Shaw	‘Discontinuities Propagation In A Pipe Flow Of Suspension Of Motile Microorganisms’ P. Denissenko
Tuesday 14:30-14:45	‘Global Instability Of Flow In A Lid-driven Cavity And Circular Cylinder Cascade’ V. Boppana		‘Instabilities Of Stewartson Layers And Taylor Columns’ R. Hollerbach	‘Flow Structures, Sediment Transport And Controls At River Bifurcations: A Laboratory Flume Experiment’ S. Sandbach	‘Time-dependent Subgrid Scales In Residual-based Large Eddy Simulation Of Turbulent Channel Flow’ P. Gamnitzer	‘Modelling Of The Interaction Between A Single Bubble And A Wall: Application To Ultrasound Contrast Agents’ B. Dollet	‘Steady Streaming In A Periodically Rotating Sphere’ R. Repetto

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Tuesday 14:45-15:00	‘Global ALE Method For Stratified Richtmyer-meshkov Instability’ B. Tian	‘Structural Rearrangements that govern Flow in Colloidal Glasses’ P. Schall	‘Rotating Rayleigh-benard Convection: The Influence Of Rotation On Thermal Boundary Layers’ R. Stevens	‘Gravity Wave Turbulence In The Laboratory Flume’ S. Lukaschuk	‘Modelling Of Fluctuations In Turbulent Two-phase Flow By Stochastic Processes’ T. Strömngren	‘Vorticity Production In Shock Bubble Interaction’ E. Lauer	‘Experimental And Theoretical Investigation Of Sperm Motility In Viscous And Viscoelastic Liquids’ D. Smith
Tuesday 15:00-15:15	‘Global Nonlinear Dynamics Of Thin Airfoil Wakes’ N. Peake		‘Rotating Annulus Convection With Large Aspect Ratio’ T. Noguchi		‘Statistics Of The Interaction Of Two Isotropic Turbulent Fields’ M. Iovieno	‘Bubble-induced Wall Friction Enhancement’ D. Legendre	‘Microfluidics Of Cytoplasmic Streaming And Its Implications For Intracellular Transport’ I. Tuval
Tuesday 15:15-15:30	‘The Global Stability Of The Jet In Crossflow’ S. Bagheri	‘3D Monte Carlo Simulations Of Internal Aggregate Structures In A Colloidal Dispersion’ A. Satoh	‘Radiative Instability Of A Stratified Lamb-oseen Vortex’ X. Riedinger		‘Dispersion Of Four-heavy-particle Sets In Turbulent Flow Using Kinematic Simulation’ A. Abou El-Azm Aly	‘Numerical Investigation Of Gas Bubbles Rising In Liquids’ D. Gaudlitz	
Tuesday 16:00-16:15	‘Bifurcations And Coexisting Solutions In Cylindrical Rayleigh-benard Convection’ K. Boronska	‘Flow, Ordering and Jamming of Sheared Granular Suspensions’ M. Nicodemi	‘Influence Of Wall Modes On The Onset Of Bulk Convection In A Rotating Cylinder’ F. Marques	‘The Deformation Of An Elastic Ring By Surface Forces.’ T. Mullin		‘Law Of Spreading Of The Crest Of A Breaking Wave’ M. Le Bars	‘Flow-induced, Self-excited Oscillations Of Collapsible Tubes’ M. Heil
Tuesday 16:15-16:30	‘The Taylor-benard Problem’ M. Nagata		‘High Rayleigh Number High Prandtl Number Natural Convection Mimicking Mantle Convection’ V. Prakash N.	‘Flow Of A Particle Along A Rotating Wall’ A. Le Quiniou		‘The Initial Flow Caused By An Inclined Accelerating Wavemaker’ J. Billingham	

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Tuesday 16:30-16:45	‘The Effect Of The Surrounding Gas Velocity On The Stability Of A Plane Liquid Sheet’ A. Sasaki	‘Modelling Of A Dense Granular Flow In Centrifugal Spreaders’ F. Rioual	‘Fluid And Scalar Transport: A Unified Lagrangian Approach’ M. Speetjens	‘On The Continuity Of Neumann Condition At Fluid-porous Interfaces’ M. Morad		‘Shear-driven Two And Three-dimensional Capillary-gravity Waves In A Horizontally Oscillating Two-liquid Flow’ S. Jalikop	‘The Cascade Structure Of Linear Instability In Collapsible Channel Flows’ X. Luo
Tuesday 16:45-17:00	‘Instabilities Of A Braginsky Fluid’ J. Mestel	‘Grain Motion And Shearing In Confined Granular Flows’ J. Métayer	‘DNS Of Rotating Convection In A Cylinder’ R. Kunnen	‘Correction Of Multihole Pressure Probe Measurements In Velocity Gradients’ V. Chernoray		‘Corner Waves Downstream A Partially Submerged Vertical Plate’ P. Martinez-legazpi	‘Oscillations In Flow Through A Flexible Tube’ R. Whittaker
Tuesday 17:00-17:15	‘Nonlinear Thresholds Of Development Of Unsteady Goertler Vortices. Experiment And Theory.’ A. Ivanov	‘Critical Behaviour In Granular Segregation’ K. Giannasi	‘Transition In Internally Heated Plane Parallel Shear Flows’ S. Generalis			‘Parametrically Forced Patterns And Quasipatterns’ A. Rucklidge	‘Intraventricular Flow Changes In An Infarcted Left Ventricle’ F. Domenichini
Tuesday 17:15-17:30	‘Mode Competition In Slowly Varying Flows’ M. Avila	‘Modelling Of Particle Size Segregation And Its Applications To Geophysical Problems’ A. Thornton					‘Pulse Propagation In The Pulmonary And Systemic Arteries’ N. Hill

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	Wednesday						
Wednesday 08:30-08:45							‘Flow control applied to transitional flows’ D. Henningson
Wednesday 08:45-09:00							
Wednesday 09:00-09:15							
Wednesday 09:15-09:30							‘Electromagnetic Flow Measurement’ A. Thess
Wednesday 09:30-09:45							
Wednesday 09:45-10:00							

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Wednesday 10:30-10:45	‘Experimental Study Of The Amplitude Dependencies Of Disturbance Waves In Annular Two-phase Flow Using Conditional Averaging Technique.’ A. Cherdantsev	‘Variations On The Scallop Theorem’ E. Lauga	‘Two-dimensional Falling Film Flow Along Steep Topography’ V. Bontozoglou	‘A Study Of The Bifurcation Characteristics Of The Plane Channel Flow Undergoing Transition Under The Influence Of The Coriolis Force’ B. Müller	‘Stochastic Coherent Adaptive Large Eddy Simulation (scales)’ O. Vasilyev	‘Dynamics Of Band Drift In Particle-laden Rimming Flow’ E. Guyez	‘Is turbulence what you think it is?’ F. Waleffe
Wednesday 10:45-11:00	‘Wake Attenuation In Large Reynolds Number Dispersed Two-phase Flows’ F. Risso		‘Solitary 3-d Waves On Free Falling Liquid Films’ V. Guzanov	‘Symmetry-breaking In Two-dimensional, Diverging-channel Flow’ A. Hazel	‘A DNS Analysis Of Inter-scale Interaction In Helicity Cascade’ Y. Li	‘Morphological Approach To The Behavior Of Suspensions’ X. Chateau	
Wednesday 11:00-11:15	‘Two-phase Gas-particle Flow Through A Set Of Moving And Stationary Cascades Of Blades’ Y. Tsirkunov	‘The Interaction Of Swimming Microorganisms With Flow: Modelling Motile Phytoplankton In Turbulence’ G. Thorn	‘Dynamics Of A Falling Film With Solutal Marangoni Effect’ A. Pereira	‘On The Influence Of The Boundary Condition On Stability Of Hagen-poiseuille Flow’ V. Prusa	‘Lattice Boltzmann Simulation Of Relaminarization From Turbulence In Channel Flow’ D. Seki	‘Multiscale Combination Of Microfluidic And Structure-continual Studies Of Stress State In Dilute Suspensions’ E. Taran	
Wednesday 11:15-11:30	‘New Model For Three-dimensional Nonlinear Perturbations Of The Two Shallow Viscous Liquids Interface’ G. Khabakhpashev	‘Instability Of A Uniform Suspension Of Swimming Micro-organisms’ T. Pedley	‘Suppression Of The Rayleigh-taylor Instability Of Thin Liquid Films By The Marangoni Effect’ A. Oron	‘Low Reynolds Number Instabilities Induced In A Channel With Wavy Walls’ T. Kowalewski	‘A Novel Mathematical Model For Turbulent Fluid Flow’ D. Harris		

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Wednesday 11:30-11:45	‘On Hydrodynamic Stability Of The Two-phase Flow In A Plane Channel With A Finite Volume Fraction Of Inclusions’ S. Boronin	‘Bioconvection In Stratified Environments’ R. Bearon	‘Dynamics Of Two-layer Non-isothermal Films’ I. Simanovskii	‘Flow Transitions In Side-heated Cavities And Their Control By Magnetic Field’ D. Henry	‘Anomalous Statistics Of Rotating Stably Stratified Turbulence’ F. Godeferd		‘A Bifurcation Study For Large-scale Motion In Channel Flow’ T. Itano
Wednesday 11:45-12:00				‘Interfacial Wave Motion In Turbulent Stratified Channel Flow’ L. O Naraigh			‘Experimental Study Of Turbulent Spot Evolution In The ASBL’ J. Fransson
Wednesday 13:30-13:45	‘Sound Radiation From Self-sustained Oscillations In A Hot Jet’ P. Huerre	‘Parametric Dependence Of Lift In A Flapping Flight’ K. Sreenivas	‘Free-surface Singularity In Convergent Flow: Cusp, Corner Or An ‘apparent’ Phenomenon?’ Y. Shikhmurzaev	‘2d Inviscid Transonic Flow Of Perfect Gas In The Vicinity Of A Curvature-break Point On A Rigid Body Surface’ D. Yumashev	‘Development Of A High-order Numerical Method To Simulate Flows Over Surface Discontinuities’ L. Moret-Gabarro	‘Experimental Investigation Of Bubbly Two-phase Flow In An Open Capillary Channel Under Microgravity Conditions’ A. Salim	‘Lifetime Of Turbulence In Pipe Flow’ D. Kuik
Wednesday 13:45-14:00	‘Effect Of Surface Roughness And Fst On Crossflow Instability’ T. Kurian	‘The Importance Of Leading-edge Vortices In Dragonfly Flight’ C. Tropea	‘The Drag-out Problem In Liquid Film Theory’ E. Benilov	‘Numerical And Experimental Modelling Of Transonic Flow In Very Narrow Channels And Gaps’ J. Vimmr	‘Domain Decomposition For High Reynolds Number Near-wall Flows’ S. Utyuzhnikov	‘Self-excited Oscillations In A Buoyant Confined Bubbly Shear Layer’ V. Roig	‘Coherent Structures In Pipe Flows’ A. Willis

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Wednesday 14:00-14:15	‘Numerical Exploration Of Subcritical Instabilities In Small Gap Couette-taylor Problem’ A. Meseguer	‘Investigation Of The Three-dimensional Flow Field Around An Artificial Owl Wing’ S. Klaen	‘Bending At The Base Of A Dragged-out Thread’ M. Blount	‘Wave Processes In A Viscous Shock Layer And Problem Of Pulsations Control’ S. Mironov	‘Application Of The Chimera Method For The Simulation Of A Sphere Near A Wall’ T. Deloze	‘Instability Of The Interface Of A Rising Bubble In A Vertical Slowly Diverging Pipe’ J. Peixinho	‘Generation Of Hairpin Vortices And Their Decay In Pipe Flow’ J. Philip
Wednesday 14:15-14:30	‘Influence Of Free-stream Turbulence Scale And Shape Of Leading Edge On Laminar-turbulent Transition In Boundary Layer’ M. Ustinov	‘Rotational Force In Insect Flight’ J. Andro	‘Similarity Solutions For Unsteady Gravity-driven Slender Rivulets’ B. Duffy	‘Structural Transitions In Swirled Compressible Flows’ A. Ni	‘A 3D XFEM/Lagrange Multiplier Based Approach For Fluid Structure Interaction’ W. Wall	‘On The Motion Of A Taylor Bubble Rising At Counter-current Flow In A Vertical Channel.’ B. Figueroa	‘Edge Of Chaos And The Turbulence Transition In Pipe Flow’ T. Schneider
Wednesday 14:30-14:45	‘Flutter Of A Single Flag Or Two Parallel Flags In Uniform Flow’ C. Eloy	‘Symmetry Breaking Of The Vortex Street Produced By A Flapping Foil’ R. Godoy-Diana	‘Tip Selection For Three-dimensional Dendrites’ M. Foster	‘Problem Of Steady-state Flow Over A Step In The Shallow-water Approximation’ A. Petrosyan	‘Finite-difference High-order Implementation Of The Immersed-boundary Technique For The Incompressible Navier-stokes Equations’ G. Bonfigli	‘Acoustically Coupled Pulsations And Translation Of Two Microbubbles In Ultrasound’ V. Garbin	‘An Experimental Investigation Of Turbulence In Pipe Flow.’ B. Hof
Wednesday 14:45-15:00	‘Dynamic Measurements On An Airfoil Using Acoustic Forcing’ J. Olsman	‘Branches: Obstacles Or Springboards For Samaras’ T. Sugimoto	‘Subcritical And Supercritical Capillary Channel Flow’ M. Dreyer	‘Anomalous Transport In Complex Relaxation Gas Flows’ V. Aristov	‘An Accelerated Multigrid Approach For Time-integration Of Incompressible Navier-stokes Equations’ Y. Feldman	‘Fast-rising Cap Bubbles With A Toroidal Bubbly Wake’ C. Caulfield	‘Finite-amplitude Solutions In Transitional Pipe Flow’ Y. Duguet

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Wednesday 15:00-15:15	‘Optimal Amplification Of Energy In Fluid-flow Induced Flapping Of A Thin Panel’ G. Coppola	‘CFD Study Of Biologically Inspired Flapping/oscillating Foils In Forward Motion’ J. Guerrero		‘Reduced Order Model Based Control Of Subsonic Cavity Flows’ K. Nagarajan	‘Analysis Of The Contribution Of Flow Features To The Global Forces On A Bluff Body’ L. Fiabane	‘Prediction Of Bubble Sliding And Lift-off Diameters At The Wall Of A Shear Flow’ H. Yoshikawa	‘Pipe Flow Critical Trajectories And Underlying Solutions’ F. Mellibovsky
Wednesday 15:15-15:30	‘Absolute Instability Of Co-flow Mixing Layers’ J. Healey			‘Linear Stability, Transient Growth And The Role Of Viscosity Stratification In Compressible Plane Couette Flow’ M. Alam	‘On The Capabilities Of A POD-based Flow Estimation Technique.’ E. Lombardi	‘Gas Separation And Bubble Behavior At A Woven Screen’ M. Conrath	‘Periodic States In Pipe Flow’ J. Seddon
Wednesday 16:00-16:15	‘Motion Of An Elliptic Vortex Ring’ D. Adhikari	‘Dynamics Of Flexible Fish Manoeuvres’ K. Singh		‘The boundary-layer flow of two-layer non-Newtonian fluids’ J. Denier	‘Turbulent Flows Over Rough Walls’ M. Amir		‘Plane Couette Flow At The Laminar-turbulent Transition As A Spatio-temporal Process’ P. Manneville
Wednesday 16:15-16:30	‘A Flow Field Investigation On Crown-shaped Nozzles’ D. Tsovolos		‘Conglomerates Of Spheres Falling Steadily In A Viscous Fluid’ M. Ekiel-Jezewska	‘Boundary Layers In High Reynolds Number Flows Through A Domain With Permeable Boundary’ K. Ilin	‘On The Logarithmic Velocity Profile In Very Rough Open-channel’ E. Florens		‘Experimental Study Of The Relaminarization In A Two-dimensional Channel Flow’ T. Numano

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Wednesday 16:30-16:45	‘Experimental Studies On Compressible Vortex Loop Instabilities’ H. Zare-behtash	‘Boundary Layer Flow Studies On Undulatory Wall Motion’ S. Kunze	‘Experimental Investigation Of The Loads Supporting The Zigzag Motion Of Freely Rising Axisymmetric Bodies’ P. Ern	‘Travelling Parabolic Fronts And Hyperbolic Waves In Unsteady Boundary Layers’ G. Vilenski	‘Impact Of Turbulent Flow On Large Spherical Roughness Elements’ C. Braun		‘Self-sustained Flow States In A Square Duct’ H. Wedin
Wednesday 16:45-17:00	‘Linear And Nonlinear Dynamics Of Axisymmetric Waves In The Hollow Core Vortex’ J. Fontane	‘Flow Control Using Hairy Surfaces’ A. Bottaro	‘High-speed Jet Formation After Solid Object Impact’ S. Gekle	‘Similarity Solutions Of The Boundary-layer Equations For Flow Along A Curved Wall’ K. Pereira	‘Response Of Near-wall Turbulent Flow To Temporal Acceleration’ Y. Chung		‘Sensitivity Of The Compliant Channel Flow’ J. Hoepffner
Wednesday 17:00-17:15	‘Vortex Rings In A Viscous Fluid: Asymptotic Theory And Numerical Simulations’ F. Kaplanski	‘Riblet Surfaces In Turbulent Evolving Boundary Layers’ S. Klumpp		‘On A Similarity Solution In Unsteady Marginal Separation’ S. Braun	‘Linear Analysis Of Drag Reduction In Channel Flow By Wall Heating/cooling’ H. Mamori		‘Coherent Structures On The Laminar/turbulent Boundary’ C. Pringle
Wednesday 17:15-17:30	‘Vortex Dipole: Free And Strained Evolution’ I. Delbende	‘Nature-inspired Porous Airfoils for Sound Reduction’ T. Geyer		‘On The Surface Pressure Fluctuations And Tonal Noise Generated By Airfoil In Laminar Flows’ T. Chong	‘Drag Reduction Effects In A Turbulent Channel Flow Induced By Spanwise Wall Oscillations’ P. Ricco		‘Laminar-turbulent Transition In Pipe Flow For Yield-stress Fluids’ C. Nouar

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Thursday							
Thursday 09:15-09:30							‘Numerical simulations of high Rayleigh number thermal convection’ R. Verzicco
Thursday 09:30-09:45							
Thursday 09:45-10:00							
Thursday 10:30-10:45	‘Cat’s Eyes And Neutral Modes Of A Two-dimensional Vortex’ M. Turner	‘Superstability Of Surface Nanobubbles’ B. Borkent	‘Magnetic Field Effects On Three Dimensional Stability Of Natural Convection Flows In Differentially Heated Cavities’ N. Pelekasis	‘The Effects Of Surface Roughness On The Motion Of A Sphere In A Stokes Flow Near A Wall’ C. Otto	‘Vortex analysis in the near wake behind a porous cylinder subject to blowing or suction’ B. Fallenius	‘Instabilities In Papermaking: A Local And Global Approach’ S. Rees	‘Vortical Flow Past A Semispherical Cavity On A Plate’ G. Voropaev
Thursday 10:45-11:00	‘Transient Growth In Vortices With Axial Flow’ C. Heaton	‘Microfluidic With Foams: Interplay Between The Drag And The Arrangement Of Bubbles’ P. Marmottant	‘Hydrodynamic Instability During Crystal Growth From The Melt’ H. Wilke	‘Numerical Study Of Solid Cylinders Moving Freely In A Viscous Fluid’ F. Auguste	‘Onset Of Instabilities In The Wake Of A Fixed Sphere In The Mixed Convection - Configurations Of Assisting And Opposing Flow’ M. Kotouč	‘Backward-facing Step Flow Applied To Transverse Current Flow On Ship Hulls In Shallow Water’ K. Jakobsen	‘Flow Control On A High Thickness Airfoil By A Trapped Vortex’ R. Donelli

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Thursday 11:00-11:15	‘Collective Dynamics Of Localized Vortices In Shear Flows’ I. Soustova	‘Marangoni Instability In Binary Fluids And Nanofluids.’ A. Podolny	‘Effect Of Radiation On Temperature Profiles In A Radiatively Participating Medium’ M. Vasudevan	‘Identification Of Shedding Mode Ii Behind A Rotating Cylinder’ I. Yildirim	‘Three-dimensional Floquet Stability Analysis Of The Wake Of A Confined Circular Cylinder’ S. Camarri	‘Computational Fluid Dynamics Analysis Of Low Speed Transitional Wind Turbine Flows’ S. Latorre	‘Experimental Characterization Of The Separated Flow Over A Cylindrical Cavity’ F. Rodriguez Verdugo
Thursday 11:15-11:30	‘Local Helical Symmetry Of Vortices Created By Vortex Generators In A Low Reynolds Number Boundary Layer’ C. Velte	‘Analytical Methods In Biomicrofluidics’ N. Fedosenko	‘Direct Numerical Simulation Of Turbulent Heat Transfer Modulation In Micro-dispersed Channel Flow’ A. Soldati		‘Flow Instabilities In The Wake Of The Sphere’ J. Wesfreid	‘CFD Study Of The Gas Carry-under In A Gas-liquid Compact Cyclone (GLCC TM) Separator Using A Mixture Model’ N. Bienvenue	‘Experimental Investigation Of The Near-wall Flow Behind A Backward-facing Step’ J. Tihon
Thursday 11:30-11:45	‘Hysteresis On The Subcritical Vortex Dynamics In A Von Karman Flow Experiment’ J. Burguete	‘The Dynamics Of Droplet Impact Upon Carbon Nanofibre Jungles’ P. Tsai	‘The Computation Of Buoyant Flows In Differentially Heated Cavities’ A. Omranian		‘Global Frequency Selection In A Controlled Wake’ O. Cadot	‘Construction And Performance Characterisation Of The Low-cost Regenerators For Travelling-wave Thermoacoustic Engines’ A. Abduljalil	‘Modelling The Effect Of Flow Pulsation On Turbulent Flow In A 10 Plane Diffuser’ P. Momeni
Thursday 11:45-12:00	‘Numerical and experimental study of wavelength selection of Gortler vortices’ M. Matsubara				‘Wake Interaction Between Two Long, Tandem, Flexible Cylinders In A Stepped Current’ F. Huera-Huarte		‘Numerical Simulations Of The Interaction Of An Array Of Synthetic Jets With A Separating Boundary Layer’ J. Zhou

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Thursday 13:30-13:45							‘Optimization of uniflagellate and biflagellate locomotion’ A. Hosoi
Thursday 13:45-14:00							
Thursday 14:00-14:15							
Thursday 14:15-14:30							
THE END							