

8:00	Registration outside F1							
8:30	Welcome and opening ceremony in F1							
9:15	Euromech Fluid Mechanics Lecture							
	F1 <i>Chair: H. H. Fernholz</i>							
	I. Liquid sloshing in cylindrical containers Emil J. Hopfinger							
10:00	Coffee break							
10:30	Session S1							
	The number preceding the title corresponds to the page in the book of abstracts							
	E1	E2	E31	E36	D1	D2	D3	D31
	Global modes & vortex instabilities	Biomedical flows I	Instabilities of rotating flows	Large Eddy Simulations	Geophysical flows I	Multiphase flows I	Wall bounded turbulence I	Transition to turbulence
<i>Chair</i>	<i>P. Schmid</i>	<i>L. Fuchs</i>	<i>H. Andersson</i>	<i>P. Orlandi</i>	<i>I. D. Abrahams</i>	<i>L. van Wijngaarden</i>	<i>W. Schröder</i>	<i>K. J. A. Westin</i>
10:30	1. Linear dynamics of a separated flow over a rounded backward facing step: global modes and optimal perturbations <i>D. Sipp</i>	7. Stability of pulsatile flow through a pipe <i>K. C. Sahu</i>	13. Global stability of the rotating disk boundary layer and the effects of suction and injection <i>C. Davies</i>	18. Actual performance of improved WENO schemes on a selection of test cases <i>I. Fedioun</i>	23. Stratified turbulence <i>G. Brethouwer</i>	28. Mesoscopic modelling of a two phase flow in presence of the boundaries <i>M. Sbragaglia</i>	33. Evaluation of a universal transitional resistance diagram for pipes with honed surfaces <i>J. J. Allen</i>	39. Super-late stages of boundary layer transition and deterministic post-transitional turbulence <i>Y. S. Kachanov</i>
10:45	2. Global stability of jets and sensitivity of the mode to inflow perturbations <i>F. Giannetti</i>	8. Steady and pulsatile flow through a locally constricted tube <i>M. D. Griffith</i>	14. Crossflow instability in rotor-stator flows with throughflow <i>S. Poncet</i>	19. Prediction of wall bounded flows using LES, DES and RANS <i>M. Liefvendahl</i>	24. Beta-plane turbulence in a basin with no-slip boundaries <i>W. Kramer</i>	29. Flow separation from a free surface dominated by surface tension <i>I. R. Williams</i>	34. A general asymptotic description of turbulent boundary layers <i>B. Scheichl</i>	40. Experimental and theoretical investigation into the development of turbulent spots under varying pressure gradient <i>D. M. Hernon</i>
11:00	3. Oscillating growth in convection dominated systems <i>G. Coppola</i>	9. Instability and transition of pulsatile flow in stenotic /constricted pipes <i>S. J. Sherwin</i>	15. Continuous spectrum growth and modal instability in swirling duct flow <i>C. J. Heaton</i>	20. Large eddy simulation of the turbulent field in a channel with oscillating walls <i>P. R. Bailey</i>	25. Investigations of turbulence statistics in the laboratory model of an atmospheric cloud <i>P. M. Korczyk</i>	30. Dynamic wetting transition: avoided critical behavior <i>G. Delon</i>	35. Computations of turbulent boundary layers with streamwise pressure gradients <i>H. Nagib</i>	41. Low-speed streaks developing at the laminar-turbulent interface of turbulent wedge <i>A. Inasawa</i>
11:15	4. Control of instabilities in a cavity-driven separated boundary-layer flow <i>E. Åkervik</i>	10. Pulsatile flows in pipes with finite curvature <i>S. L. Waters</i>	16. Oscillatory jets and triadic instability in a closed rotating flow <i>Y. Duguet</i>	21. Uncertainty quantification in large-eddy simulation <i>J. Ko</i>	26. Differential diffusion in stratified sheared turbulence <i>H. Hanazaki</i>	31. Phase-field simulations of free boundary flows <i>W. Villanueva</i>	36. Equilibrium boundary layers revisited <i>Y. Maciel</i>	42. Large-eddy simulations of bypass transition <i>P. Schlatter</i>

Session S1

	E1	E2	E31	E36	D1	D2	D3	D31
11:30	5. The instability of multiple wing-tip vortices	11. Convective diffusion process in a pulsating flow through stenosis	17. The influence of centrifugal buoyancy in rotating convection	22. Large eddy simulation of impinging jets with focus on the inflow boundary conditions	27. Coupling weather-scale flow with street scale computations	32. Error estimation and application of different volume of fluid implementations for non-Newtonian flows with free surfaces	37. Flow developments in smooth wall circular duct facility	43. Direct numerical simulation of laminar heat transfer to a flat plate affected by free-stream fluctuations
	<i>E. J. Whitehead</i>	<i>R. Tuzi</i>	<i>F. Marques</i>	<i>T. Hällqvist</i>	<i>Z. Xie</i>	<i>A. Rudert</i>	<i>E.-S. Zanoun</i>	<i>J. G. Wissink</i>
11:45	6. The dispersal, decay and instability of multiple trailing-line vortices	12. Haemodynamics of the embryonic chicken heart					38. Secondary flow measurement of an outlet guide vane cascade at low and high inlet turbulence intensities	
	<i>P. W. Duck</i>	<i>P. Vennemann</i>					<i>S. Kennedy</i>	

12:00 Lunch

13:30 Invited Lecture 1

F1

Chair: W. Schröder

II. Continuum models in industrial applications

Hillary Ockendon

14:30 Session S2

The number preceding the title corresponds to the page in the book of abstracts

	E1	E2	E31	E36	D1	D2	D3	D31
	Instabilities & global modes	No session	Compressible boundary layers	Numerical techniques and simulations I	Geophysical flows II	Multiphase flows II	Turbulence I	Experimental methods I
Chair	<i>U. Ehrenstein</i>		<i>H. Nagib</i>	<i>R. Verzicco</i>	<i>J.-M. Chomaz</i>	<i>G. Ooms</i>	<i>S. Wallin</i>	<i>A. Talamelli</i>
14:30	44. Axisymmetric absolute instability of swirling jets		48. Interaction of acoustic disturbances with a hypersonic shock layer on a flat plate	52. The parabolised stability equations for 3D-flows: implementation and numerical stability	56. Flow inside a precessing cylinder	60. Numerical simulations of rigid fiber suspensions	64. A shell-model study of turbulent drag reduction by polymer additives	68. High spatially resolved velocity measurements of turbulent flows with at fiber-optic velocity-profile sensor
	<i>J. J. Healey</i>		<i>S. G. Mironov</i>	<i>M. S. Broadhurst</i>	<i>C. Eloy</i>	<i>K. Gustavsson</i>	<i>E. S. C. Ching</i>	<i>K. Shirai</i>
14:45	45. The effect of confinement on the stability of two-dimensional jets and wakes		49. Application of the ray-tracing theory to the stability analysis of three-dimensional compressible boundary layers	53. Solving turbulent wall flow in 2D using volume penalization on a Fourier basis	57. Buoyant control of non-axisymmetric instabilities during spin-up of rotating stratified fluid	61. DNS of moving solids in viscous fluid: application to rheology of complex fluids	65. Scale energy budget for a viscoelastic wall-bounded flow	69. Combined velocity and temperature measurements in a buoyancy induced ring vortex
	<i>M. P. Juniper</i>		<i>R. S. Donelli</i>	<i>G. H. Keetels</i>	<i>S. A. Smirnov</i>	<i>P. Laure</i>	<i>E. De Angelis</i>	<i>S. M. M. Salim</i>

Session S2

	E1	E2	E31	E36	D1	D2	D3	D31
15:00	46. Stability of the flow past a freely moving disk <i>G. Forlano</i>		50. Stability, transition and flow control of supersonic boundary layer on swept wing <i>N. V. Semionov</i>	54. 3D numerical simulation of Batchelor vortices <i>J. Ortega-Casanova</i>	58. Upper bounds for the long-time averaged buoyancy flux in plane stratified Couette flow subject to a mixing efficiency constraint <i>C. P. Caulfield</i>	62. On the transitional and rotational motion of ellipsoidal particles in a turbulent channel flow <i>P. H. M. Mortensen</i>	66. Using CSP for modelling Burgers-turbulence <i>B. Müller</i>	70. Local high-resolution wall-shear-stress measurements in a turbulent boundary layer using a micro-pillar based sensor concept <i>S. Große</i>
15:15	47. Generalized energies for stability analysis: application to plane Poiseuille flow <i>S. Camarri</i>		51. Leaky waves in supersonic boundary layer flow <i>J. O. Pralits</i>	55. Development of a 3D transient incompressible Navier-Stokes solver <i>A. K. Dass</i>	59. Plumes with time dependent source conditions in uniformly stratified environment <i>M. M. Scase</i>	63. Modelling shear flow effects on the fibre orientation distribution function in a planar contraction <i>M. Hyensjö</i>	67. A Leary type regularization for low-dimensional POD-Galerkin systems <i>F. Sabetghadam</i>	71. Dynamic lift of airfoils <i>R. Grüneberger</i>

15:30 Coffee break

16:00 Session S3 The number preceding the title corresponds to the page in the book of abstracts

	E1 Boundary layer transition	E2 Biomedical flows II	E31 Hydrodynamic instabilities I	E36 Capillary flows I	D1 Geophysical flows III	D2 Multiphase flows III	D3 Turbulent transport	D31 Vortex dynamics I
Chair	<i>Y. S. Kachanov</i>	<i>L. Fuchs</i>	<i>P. Luchini</i>	<i>G. Amberg</i>	<i>G. Brethouwer</i>	<i>M. E. Dreyer</i>	<i>I. P. Castro</i>	<i>G. Buresti</i>
16:00	72. Experimental study on the boundary layer transition induced by a shallow 3D roughness element <i>I. B. de Paula</i>	77. Numerical simulation of the three-dimensional fluid-structure interaction of a bileaflet mechanical heart valve <i>A. Cristallo</i>	81. Wave forerunners of longitudinal structures on straight and swept wings <i>M. M. Katasonov</i>	87. Elasto-capillarity in wet hairs <i>J. Bico</i>	93. Monochromatic internal waves from oscillating objects <i>B. Voisin</i>	99. Core-annular flow through horizontal pipe: hydrodynamic counterbalancing of buoyancy force on core <i>G. Ooms</i>	104. Numerical modelling of heat transfer and fluid flow in rotor-stator cavities with throughflow <i>S. Poncet</i>	110. Modelling of optimal vortex ring formation using the Stokes approximation <i>F. Kaplanski</i>
16:15	73. Flow visualization of relaminarization in a two-dimensional channel flow <i>M. Matsubara</i>	78. Experimental investigation of vitreous humour dynamics <i>R. Repetto</i>	82. Features of laminar-turbulent transition of adverse pressure gradient flows at low and high Reynolds numbers <i>V. G. Chernoray</i>	88. Capillary rise between heated parallel plates <i>J. Gerstmann</i>	94. A general theory for stratified wakes <i>P. Meunier</i>	100. Transient displacement of a Newtonian liquid by gas in periodically constricted circular tubes <i>Y. Dimakopoulos</i>	105. Turbulent scalar transport mechanisms in flows over a wavy wall <i>R. Rossi</i>	111. Experiments on vortex-ring dynamics in a rotating fluid <i>M. A. Brend</i>

Session S3

	E1	E2	E31	E36	D1	D2	D3	D31
16:30	74. Natural sinuous and varicose breakdown during bypass transition <i>J. Mans</i>	79. Effects of the flexibility of the arterial wall on the wall shear stresses in abdominal aortic aneurysms <i>A. V. Salsac</i>	83. Stability and sensitivity analysis of separation bubbles <i>L. Marino</i>	89. Open capillary channel flows (CCF): flow rate limitation in a groove-channel <i>D. Haake</i>	95. Turbulent entrainment in weak fountains <i>G. R. Hunt</i>	101. Influence of inlet conditions on flow patterns in oil-water flows in horizontal tubes at intermediate Eötvös number <i>B. Grassi</i>	106. Turbulent thermal convection over grooved surfaces effect of the finite thermal conductivity of the plates <i>G. Stringano</i>	112. The effect of a sphere on a swirling jet in an open flow <i>K. Atvars</i>
16:45	75. Spot-like structure in freestream induced transitional flow <i>A. C. Mandal</i>	80. The influence of gravity on the propagation of an air finger into a fluid-filled, elastic-walled channel <i>A. L. Hazel</i>	84. DNS of a long laminar separation bubble <i>O. Marxen</i>	90. On "fakir" drops <i>M. Reyssat</i>	96. Analytical description of solidification processes of young sea ices in leads <i>D. V. Alexandrov</i>	102. Experimental study of the effect of gas injection on oil-water phase inversion in a vertical pipe <i>M. Descamps</i>	107. Comparative study of turbulence modelling in variable density jets and diffusion flames <i>F. Tabet-Helal</i>	113. The Kelvin waves and the singular modes of the Lamb-Oseen vortex <i>D. Fabre</i>
17:00	76. Disturbance growth in boundary layer subjected to anisotropic free stream turbulence <i>T. Kenchi</i>		85. Stability of reacting gas jets <i>J. W. Nichols</i>	91. Stick-slip motion of droplets of colloidal suspension <i>E. Rio</i>	97. Flushing of buoyant fluid from a ventilated box <i>C. J. Coffey</i>	103. Microbubble drag reduction in a Taylor-Couette system <i>K. Sugiyama</i>	108. An explicit algebraic model for the subgrid passive scalar flux <i>L. Marstorp</i>	114. Three-dimensional stability of non-uniform vortex patches <i>D. Guimbard</i>
17:15			86. Double diffusive instabilities of statistically stable chemical fronts <i>A. Zebib</i>	92. Drops on natural (super)-hydrophobic surfaces <i>S. Saint-Jean</i>	98. The influence of the density maximum of water on free convection <i>P. A. Mooney</i>		109. Simulation and evaluation of mixing in a plane compressible wall jet <i>D. Ahlman</i>	115. Stability of a stratified tilted vortex <i>N. Boulanger</i>

8:30	Invited Lecture 2							
	F1 <i>Chair: D. S. Henningson</i> III. Progress in Reynolds' problem: transition to turbulence in pipe flow Rich R. Kerswell							
9:15	Invited Lecture 3							
	F1 <i>Chair: G. J. van Heijst</i> IV. Slip at liquid/solid interfaces: comparison between continuum predictions and molecular-scale models Sandra M. Troian							
10:00	Coffee break							
10:30	Session S4							
	The number preceding the title corresponds to the page in the book of abstracts							
	E1	E2	E31	E36	D1	D2	D3	D31
	Mini-symposium New developments in hydrodynamic stability	Mini-symposium Vehicle aerodynamics	Multiphase flows IV	Capillary flows II	Mini-symposium Microfluidics	No session	Turbulence II	Experimental methods II
<i>Chair</i>	<i>D. Henningson</i>	<i>A. Talamelli</i>	<i>G. J. F. van Heijst</i>	<i>A. Zebib</i>	<i>C. Baroud</i>		<i>H. Nagib</i>	<i>Y. Maciel</i>
10:30	353. Hydrodynamic stability theory – a modern approach	373. Introduction to vehicle aerodynamics: achievements and open issues	116. Dynamics of droplet deformation and break-up	121. Three-dimensional gravity-capillary interfacial solitary waves and related problems	363. Optical micromanipulation takes hold for microfluidics	/	127. Waves above turbulence	132. Application of sound measurements to quantitative analysis of the parameters of concentrated vortical structures
			<i>L. Prah</i>	<i>E. I. Parau</i>			<i>R. Savelsberg</i>	<i>S. I. Shtork</i>
10:45			117. Modelling of the dynamics and break-up of jets and sprays	122. Sounding rocket experiment on capillary channel flow		/	128. Dynamic stall of oscillating NACA0012 airfoil	133. Simultaneous density and concentration measurements on hypersonic jets
		<i>G. Buresti</i>	<i>S. Sazhin</i>	<i>M. E. Dreyer</i>	<i>K. Dholakia</i>		<i>M. A. Ashraf</i>	<i>M. Belan</i>
11:00		374. Flow control in an adverse pressure gradient boundary layer	118. Dynamics of drop breakup in inhomogeneous turbulence	123. Linear and non-linear theory of long wavelength Marangoni instability with Soret effect at finite Biot numbers	364. Laser induced thermocapillary driven flow in Hele-Shaw geometry	/	129. Flow around a NACA 0021 airfoil at 60° angle of attack	134. Apart: an MTV technique applicable in large range of environments
	<i>P. J. Schmid</i>	<i>O. Lögdberg</i>	<i>F. Risso</i>	<i>A. Podolny</i>	<i>F. Gallaire (cont.)</i>		<i>R. El Akoury</i>	<i>J. Bominaar</i>

Session S4

	E1	E2	E31	E36	D1	D2	D3	D31
11:15	354. Edge states in the transition to turb-lence in pipe flow	375. Characterization of the flow induced by high amplitude clearance pulsed micro-jets <i>F. Harambat</i>	119. Nonlinear long waves on an interface of steady-state flow of the two-layered viscous liquid in a horizontal channel <i>G. Khabakhpashev</i>	124. Flow rate limitation in open capillary channels due to choking <i>U. Rosendahl</i>	<i>Cont.</i>		130. Global drag fluctuations of disks having different sizes in a turbulent jet: averaging effect of the turbulent scales <i>O. Cadot</i>	135. Introduction of newly developed towing wind tunnel facility <i>S. Yoshioka</i>
11:30	<i>B. Eckhardt</i>	376. Closed loop control experiments on a simplified car model using vortex generators and wall pressure measurements <i>J. F. Beaudoin</i>	120. Experimental study of inclined film flow along periodic corrugations: the effect of wall steepness <i>V. Bontozoglou</i>	125. Surface oscillations of liquid nitrogen under microgravity <i>M. Stief</i>	365. Numerical simulation of dielectrophoresis <i>F. Gallaire</i>		131. Investigation of flow structure upon new wing section for small UAVs and MAVs <i>I. D. Zverkov</i>	
11:45	355. Finite amplitude stability curves in the transition to turbulence in pipe flow <i>J. Peixinho</i>	377. On the role of coherent structures visualization in the numerical analysis of bluff-bodies aerodynamics <i>R. Rossi</i>		126. The effect of an electric field upon a pinched incompressible fluid <i>H. Gleeson</i>	<i>Y. Lin</i>			

12:00 Lunch

13:30 Session S5

The number preceding the title corresponds to the page in the book of abstracts

	E1	E2	E31	E36	D1	D2	D3	D31
	Mini-symposium New developments in hydrodynamic stability	Mini-symposium Vehicle aerodynamics	Multiphase flows V	Geophysical flows IV	Mini-symposium Microfluidics	Turbulence with rotation	Wall bounded turbulence II	Vortex dynamics II
Chair	<i>D. Henningson</i>	<i>A. Talamelli</i>	<i>S. Hilgenfeldt</i>	<i>I. D. Abrahams</i>	<i>C. Baroud</i>	<i>M. Braza</i>	<i>I. P. Castro</i>	<i>P. W. Carpenter</i>
13:30	356. Receptivity and transient growth in wakes <i>J.-M. Chomaz (cont.)</i>	378. Flow structures and related global forces for a 3D bluff-body in cross-wind <i>M. Gohlke</i>	136. A simple model for gas-grain two phase isentropic flow and a high resolution scheme for the numerical solution for the governing equations <i>J. Hudson</i>	143. Instability of an axisymmetric vortex in a stably stratified fluid <i>S. Le Dizès</i>	366. Surfactant effects on drop detachment <i>K. J. Stebe (cont.)</i>	151. LES of a turbulent channel flow at streamwise rotation <i>N. Alkishriwi</i>	159. Assessment of a wavelet based coherent structure eduction technique in turbulent wall flows <i>W. Da Riz</i>	166. Experiments on the reverse Bénard-von Kármán vortex street produced by a flapping foil <i>R. Godoy-Diana</i>

Session S5

	E1	E2	E31	E36	D1	D2	D3	D31
13:45	<i>Cont.</i>	379. Computational aerodynamics of vehicle passing	137. Experimental study of incipient motion and transportation of particles with various shape	144. Three-dimensional stability of vortex arrays in a stratified fluid	<i>Cont.</i>	152. Direct numerical simulations of rotating channel flow at high rotation numbers	160. Multi-scale exact coherent structures in channel flow	167. Decay or collapse: aircraft wake vortices in grid turbulence
	<i>J.-M. Chomaz</i>	<i>J. Clarke</i>	<i>K. J. A. Westin</i>	<i>A. Deloncle</i>	<i>K. J. Stebe</i>	<i>O. Grundestam</i>	<i>T. Itano</i>	<i>M. Ren</i>
14:00	357. Recent advances in the computation of BiGlobal linear instability of flows over complex configurations	380. Some remarks on cooling flows	138. Dynamics of heavy particles near a helical vortex filament	145. Scattering of internal gravity waves	367. Rate-of-flow-controlled break-up; formation of bubbles and droplets in microfluidic systems	153. Heat transfer in turbulent rotating convection	161. Anisotropic fluctuations in a turbulent boundary layer	168. Kinematic-dynamic correspondence in flow-driven motion of a valvular leaflet
14:15			<i>R. H. A. Ijzermans</i>	<i>A. Nye</i>				
			139. Dispersed phase subgrid models for Euler-Euler large eddy simulation of turbulent gas-particle flows	146. Mixing by merging Kelvin-Helmholtz billows		154. Study of anisotropy in purely stratified and purely rotating turbulence by orthogonal wavelets	162. Developments of sub-layer streaks in two- and three-dimensional turbulent boundary layers	169. Prandtl-Batchelor channel flows past plates at normal incidence
	<i>V. Theofilis</i>	<i>L. Christoffersen</i>	<i>M. Moreau</i>	<i>M. D. Patterson</i>	<i>P. Garstecki</i>	<i>L. Liechtenstein</i>	<i>K. L. Kudar</i>	<i>F. Gallizio</i>
14:30	358. Global modes and streamwise non-normality in the flat-plate boundary layer flow	381. Numerical study of a thermal radiation performance in air-cooling eddy-current-brake	140. Stability of dusty gas flow in a vertical channel	147. Scattering of linear Rossby waves by abrupt topography	368. Handling microfoames	155. Modelling anisotropic dispersion in rotating stratified turbulence	163. Very-rough-wall boundary layer	170. Three-dimensional structures in quasi-two-dimensional shallow flows
14:45			<i>M. Ikeda</i>	<i>S. A. Boronin</i>				
		382. Introduction to the design methodology of Ducati high performance motorcycles coolant systems	141. Large eddy simulation of horizontal particle-Laden channel flows with effect of wall roughness	148. The new approach to the evolution description of moderately long planar nonlinear surface waves		156. Direct numerical simulation of turbulent flow in a tilted rotating duct	164. Flow control with crosswise groves in diffuser flows	171. On the generation of diagonal 'rib' vortices in the braid region of a mixing layer
	<i>U. Ehrenstein</i>	<i>A. Tarroni</i>	<i>A. Konan</i>	<i>D. G. Arkhipov</i>	<i>P. Marmottant</i>	<i>G. E. Mårtensson</i>	<i>R. Meyer</i>	<i>J. Philip</i>
15:00	359. Influence of cross-flow vortices on the instability of a 3-d APG boundary-layer flow with preceding FPG	383. Aeroacoustic analysis of car ventilation systems	142. Joint fluid-particle pdf modelling of a binary mixture of colliding particles falling across a turbulent homogeneous gas flow	149. Segregation of sinking particles of different densities in an oscillating velocity field of strongly nonlinear surface waves	369. Disturbing bubbles in piezo-acoustic printing	157. Numerical study of turbulence in a rotating pipe using large eddy simulation	165. Numerical simulations of transient turbulent flows	172. Lagrangian (physical) analysis of coherent vortical structures
			<i>M. J. Kloker (cont.)</i>	<i>R. Arina</i>				

Session S5

	E1	E2	E31	E36	D1	D2	D3	D31
15:15	Cont. <i>M. J. Kloker</i>	Discussion Mini-symposium: Vehicle aerodynamics		150. Nonlinear vorticity waves between critical layers <i>O. G. Derzho</i>	Cont. <i>D. Lohse</i>	158. Experiments on a swirling jet issued by a rotating pipe flow <i>L. Facciolo</i>		

15:30 Coffee break

16:00 Session S6

The number preceding the title corresponds to the page in the book of abstracts

	E1 Mini-symposium New developments in hydrodynamic stability	E2 Mini-symposium Vehicle aerodynamics	E31 Multiphase flows VI	E36 Numerical techniques and simulations II	D1 Mini-symposium Microfluidics	D2 Bubbles & drops	D3 Turbulent jets	D31 Vortex dynamics III
Chair	<i>D. Henningson</i>	<i>A. Talamelli</i>	<i>F. Lundell</i>	<i>J. Revstedt</i>	<i>C. Baroud</i>	<i>A. Prosperetti</i>	<i>Y. Maciel</i>	<i>J.-E. Wesfreid</i>
16:00	360. Delaying transition to turbulence by a passive mechanism	384. New aerodynamics solution in the Ferrari FXX	173. The evolution of energy in flow driven through rising bubbles <i>E. Calzavarini</i>	178. Mass transfer and dispersion from a cylinder surface immersed in a granular bed in alignment with the fluid flow <i>J. M. P. Q. Delgado</i>	370. Universality in microfluidic phenomena inside microchannels with arbitrarily shaped cross-sections	184. Bubble interactions in acoustic fields fully accounting for viscous effects <i>N. Chatzidai</i>	190. Study of the entrainment mechanism in a negatively buoyant jet developing in an ambient medium of high viscosity <i>M. S. Manikandan</i>	196. Interaction of two unequal co-rotating vortices <i>R. R. Trieling</i>
16:15	<i>J. H. M. Fransson</i>	<i>G. Lombardi</i>	174. Bubble dynamics in a cylindrical laminar Couette flow <i>C. Colin</i>	179. Surface waves in coupled channels and acoustic waves in coupled ocean layers <i>I. Y. Popov</i>	<i>H. Bruus</i>	185. Generation of metal nanodroplets and impact experiments <i>A. Habenicht</i>	191. The interaction between negatively buoyant jets and wave motion: a laboratory model <i>S. Ferrari</i>	197. Instabilities of co-rotating vortices <i>P. Orlandi</i>
16:30	361. Stochastic excitation of streaky boundary layer <i>J. Høpfner (cont.)</i>	385. Zero emission high-speed vehicle, aerotrain <i>Y. Kohama (cont.)</i>	175. Levitation of small bubbles and droplets in a rotating liquid <i>F. Peters</i>	180. Modelling buoyancy driven displacement ventilation <i>S. D. Sandbach</i>	371. Water behavior in fluidic systems described using the water potential <i>J. C. Eijkel (cont.)</i>	186. Boundary conditions and the effect of an electrical field gradient in the water dripping dynamics <i>J. C. Sartorelli</i>	192. Measurements of buoyancy driven turbulence in a vertical pipe <i>J. H. Arakeri</i>	198. Instabilities in co-rotating vortices with axial flow <i>N. Schaeffer</i>

Continuation Wednesday 28

Session S6

	E1	E2	E31	E36	D1	D2	D3	D31
16:45	<i>Cont.</i>	<i>Cont.</i>	176. Modeling cavitation on a wing section using LES	181. Validation of urban dispersion simulations by comparison of simulations and measurements obtained around 2D and 3D building arrays in a wind tunnel	<i>Cont.</i>	187. Oscillations of thin liquid shells under acoustic forcing	193. Coherent large-scale structures and hysteresis in turbulent convection	199. Experiments on vortex pair dynamics in ground effect
	<i>J. Hoepffner</i>	<i>Y. Kohama</i>	<i>T. Persson</i>	<i>O. Parmhed</i>	<i>J. C. T. Eijkel</i>	<i>J. Sznitman</i>	<i>T. Elperin</i>	<i>T. Leweke</i>
17:00	362. Secondary optimal growth in channel flow	386. Aerodynamics of high-speed trains at high Reynolds numbers	177. Mechanisms of gas migration through porous media	182. Nonlinear interaction of a pair of sails in a flow: comparison between theory and observation	372. Reaction-diffusion dynamics in a microchannel	188. Pinch-off of a giant bubble	194. Effect of inflow conditions on the near field of a turbulent annular jet	200. On the time evolution of a pulsed jet
			<i>A. Khalili</i>	<i>T. Sugimoto</i>		<i>D. van der Meer</i>	<i>F. Picano</i>	<i>G. Querzoli</i>
17:15				183. Numerical study of flow patterns in an automotive paint bath		189. 3D chaotic mixing inside drops driven by transient electric field	195. Turbulent mixing in the entry region of confined coaxial jets	
	<i>C. Cossu</i>	<i>M. Schober</i>		<i>K.-H. Sun</i>	<i>J. B. Salmon</i>	<i>X. Xu</i>	<i>J. M. L. M. Palma</i>	

8:30	Invited Lecture 4							
	F1 <i>Chair: I. D. Abrahams</i> V. Wind turbine wake structures Jens N. Sørensen							
9:15	Invited Lecture 5							
	F1 <i>Chair: J. Magnaudet</i> VI. The power of bubbles: Unconventional microfluidics Sascha Hilgenfeldt							
10:00	Coffee break							
10:30	Session S7							
	The number preceding the title corresponds to the page in the book of abstracts							
	E1 Streamwise structures in boundary layers	E2 Mini-symposium Swirling flows	E31 Couette & Poiseuille flows	E36 Fluid structures & interactions	D1 Mini-symposium Two phase flows	D2 Control I	D3 Turbulence III	D31 Compressible flows
<i>Chair</i>	<i>C. Cossu</i>	<i>H. Andersson & M. Braza</i>	<i>M. Nagata</i>	<i>J. Revstedt</i>	<i>D. Lohse</i>	<i>P. Luchini</i>	<i>A. V. Johansson</i>	<i>H. Ockendon</i>
10:30	201. Linear-stability of Blasius boundary layer on concave wall to quasisteady and unsteady Görtler vortices: experiment and theory <i>Y. S. Kachanov</i>	387. Laboratory experiments on tornado-like vortices	207. On the stability and decay of turbulent Couette flow <i>P. Manneville</i>	213. Hydrodynamics of oscillating microcantilevers <i>O. E. Jensen</i>	404. Leonardo's paradox: Wake instability of a rising bubble	218. Feedback control in spatially growing boundary layers <i>M. P. Chevalier</i>	224. Constraints for the pressure-strain correlation tensor derived from spectral representation <i>S. R. Bogdanov</i>	230. Focusing of strong shocks in an annular shock tube <i>V. Eliasson</i>
10:45	202. Görtler vortices in an asymptotic suction boundary layer on a concave wall <i>J. Shiomi</i>	<i>D. Etling</i>	208. Features of hydrodynamic fluctuations of stochastically forced 3D plane Couette flow <i>G. Khujadze</i>	214. Stall induced vibration & flutter in a symmetric airfoil <i>S. Sarkar</i>		219. Wiener filters in active-feedback drag reduction of turbulent channel flow <i>P. Luchini</i>	225. A two-point closure based on a Lagrangian timescale <i>W. J. T. Bos</i>	231. Study of shock associated noise generated at jet engine exhausts <i>R. Szasz</i>
11:00	203. Streak growth and breakdown in a boundary layer with steady uniform suction <i>E. N. Davidsson</i>	388. Theory of helical vortices <i>V. L. Okulov (cont.)</i>	209. Modulated plane Couette flow subject to the system rotation <i>K. Kitagawa</i>	215. A nonlinear model of the dynamics of a large elastic plate with heavy fluid loading <i>N. Peake</i>	<i>A. Prosperetti</i>	220. A deterministic model of sub-layer streaks for flow control <i>P. W. Carpenter</i>	226. Anisotropic velocity fluctuations in a homogeneous shear flow <i>P. Gualtieri</i>	232. Numerical simulation of supersonic jet noise <i>J. Schulze</i>

Session S7

	E1	E2	E31	E36	D1	D2	D3	D31
11:15	204. Optimal disturbances in suction boundary layers <i>M. G. Byström</i>	<i>Cont.</i> <i>V. L. Okulov</i>	210. Experimental observations in rotating plane Couette flow <i>K. Hiwatashi</i>	216. Vortex-induced vibration of a splitter plate: effect of plate material <i>T. Pärssinen</i>	405. Particle rotation in shear, strain, and rotational flow <i>J. J. Bluemink</i>	221. Heat transfer in turbulent channel flows with roughness on one wall <i>S. Leonardi</i>	227. Measurements of velocity-pressure correlation in a free shear flow <i>Y. Naka</i>	233. Application of TVD and ENO schemes for solving the equations of compressible inviscid flow <i>M. Hajzman</i>
11:30	205. Development of subharmonic disturbances in low-speed streaks <i>M. Asai</i>	389. Modelling of the flow structure in a hydroturbine draft tube through integral characteristics <i>P. A. Kuibin</i>	211. Double Hopf bifurcation in spiral Poiseuille flow <i>M. Avila</i>	217. Experimental investigation of wind turbine wake meandering <i>P. H. Alfredsson</i>	406. Wake of a spherical bubble or a solid sphere in a turbulent flow <i>A. Merle</i>	222. Effects of drag reducing polymers in turbulent rotating channel flows <i>C. Tessauro</i>	228. Turbulent channel flow analysis by a statistical method <i>R. Tognaccini</i>	234. Statistical features of the natural disturbances in super-sonic boundary layer at the transition <i>A. D. Kosinov</i>
11:45	206. Receptivity of an infinitely thin flat plate to free-stream vorticity <i>L. Brandt</i>	390. Effects of swirl number magnitudes on the accuracy of the linear and quadratic Reynolds stress transport models <i>S. Zahrai</i>	212. Global Doppler frequency shift detection with near-resonant interferometry <i>A. Landolt</i>		407. The transition from spherical cap bubbles to toroidal bubbles <i>T. Bonometti</i>	223. Control over the splitting of a liquid jet using two-frequency excitation <i>J. F. Olsen</i>	229. Acceleration statistics in turbulence <i>Y. Tsuji</i>	235. Axisymmetric stagnation flow obliquely impinging on a rotating circular cylinder with uniform transpiration <i>A. B. Rahimi</i>

12:00 Lunch

13:30 Session S8 The number preceding the title corresponds to the page in the book of abstracts

	E1 Hydrodynamic instabilities II	E2 Mini-symposium Swirling flows	E31 Hydrodynamic instabilities III	E36 Hydrodynamic instabilities IV	D1 Mini-symposium Two phase flows	D2 Control II	D3 Non-Newtonian fluids	D31 Laminar flows
Chair	<i>L. H. Gustavsson</i>	<i>H. Andersson & M. Braza</i>	<i>P. Huerre</i>	<i>M. Matsubara</i>	<i>D. Lohse</i>	<i>P. J. Schmid</i>	<i>G. J. F. van Heijst</i>	<i>L. Brandt</i>
13:30	236. Two-layer film flow: a temporal and spatio-temporal stability analysis including viscosity and density stratification effects <i>V. Botton</i>	391. On three dimensional shear layers <i>I. Wygnanski</i>	244. Experimental investigation of pattern instabilities in the Rayleigh-Bénard-Poiseuille system <i>E. Grandjean</i>	251. Experimental study of a vibrated bubble in microgravity <i>P. Kurowski</i>	408. Interaction between path, wake and shape dynamics of a rising bubble <i>C. H. J. Veldhuis (cont.)</i>	258. Evaluation of turbulence models through predictions of a separated flow over a hump with AFC <i>J. Kiedaisch</i>	266. Viscoelastic bells <i>L. Lebon</i>	274. Slip flow over a lubricated rotating disk <i>H. I. Andersson</i>

Session S8

	E1	E2	E31	E36	D1	D2	D3	D31
13:45	237. Instability of superposed fluids subjected to tangential oscillation <i>H. N. Yoshikawa</i>	392. 2D and 3D flow past a rotating cylinder at moderate Reynolds number <i>R. Elakoury</i>	245. Magnetic stabilization of buoyant convection in a horizontal channel of rectangular cross section with a longitudinal temperature gradient <i>H. Ben Hadid</i>	252. What governs the meandering instability of a rivulet? <i>N. Le Grand-Piteira</i>	<i>Cont.</i> <i>C. H. J. Veldhuis</i>	259. Transient separation control by pulsed actuation <i>A. Glezer</i>	267. Viscoelastic simulations of the extrudate swell problem using the PTT model <i>G. Karapetsas</i>	275. Steady Stokes flow in a two-dimensional sector <i>V. V. Lyakh</i>
14:00	238. Stability of a free edge on a liquid curtain <i>J.-S. Roche</i>	393. Cellular vortex shedding in the wake of a tapered cylinder <i>V. Narasimhamurthy</i>	246. Acoustic streaming control of natural convection instabilities <i>V. Botton</i>	253. Instabilities in a salt-stratified sedimentation boundary layer <i>O. S. Kerr</i>	409. Fully coupled simulations of mono-disperse and bi-disperse suspensions in a linear shear flow <i>M. Abbas</i>	260. Progress in plasma actuator applications for active flow control <i>B. Goeksel</i>	268. Leaping shampoo and the stable Kaye effect <i>M. Versluis</i>	276. Long wave propagation through porous media and suspensions <i>I. D. Abrahams</i>
14:15	239. Two-dimensional disturbance growth of a plane liquid sheet <i>A. Sasaki</i>	394. Effect of background rotation on the structure of sphere wake flow <i>A. Rudert</i>	247. Bifurcation diagrams, stability analysis and dynamic simulations of free convection in a differentially heated cavity in the presence of a magnetic field <i>N. A. Pelekasis</i>	254. Spatial versus temporal instabilities in a parametrically forced stratified mixing layer <i>A. Y. Gelfgat</i>	410. Axisymmetric oscillations and collapse of an encapsulated microbubble subject to acoustic disturbances <i>K. Tsigliffis</i>	261. Active control of an aerodynamic noise generating flow <i>S. Izawa</i>	269. Initial stage of transition for plane Poiseuille flow of Bingham fluid <i>C. Nouar</i>	277. On the formation of hydraulic jumps in two layer fluids <i>A. Kluwick</i>
14:30	240. Spatio-temporal evolution of interfacial waves between a gas boundary layer and a thin liquid film <i>M. Vlachomitrou</i>	395. DNS and wavelet analysis of a turbulent channel flow with streamwise rotation <i>T. Weller</i>	248. Convective instability in fluid mixtures heated from above <i>V. Shevtsova</i>	255. Particle motion and ripple growth under oscillating viscous flow <i>F. Charru</i>	411. Detachment of bubbles from an oscillating needle <i>J. Vejrazka</i>	262. Experimental and numerical study of fluidic injection for noise reduction <i>E. Gutmark</i>	270. Stabilizing the Burnett equations as equations in the fluid dynamic variables <i>L. H. Söderholm</i>	278. Compressible effects in water wave impacts <i>D. H. Peregrine</i>
14:45	241. Convective structures in a thin layer of evaporating liquid in the presence of wind-induced shear flow <i>V. P. Reutov</i>	396. Eddies induced between two rotating, coaxial cones <i>C. Hills</i>	249. Nonlinear instability of a compressible mixing layer <i>C. A. Sparks</i>	256. About some dynamical properties of sand ripples under oscillatory flow <i>J. Kruithof</i>	412. Phase inversion in an oil-water flow through a pipeloop <i>K. Piela</i>	263. Critical properties of forced wakes <i>G. Bouchet</i>	271. Bouncing Leidenfrost drops: effect of polymer additives <i>V. Bertola</i>	279. The interaction of the wake with the potential flow in mixed convection flow past a horizontal plate <i>H. Steinrück</i>

Session S8

	E1	E2	E31	E36	D1	D2	D3	D31
15:00	242. Interfacial capillary wave stability in the presence of electric fields <i>S. Grandison</i>	397. Polygons on a rotating fluid surface <i>T. Bohr</i>	250. Convective flows in a two-layer system with a temperature gradient along the interface <i>A. Nepomnyashchy</i>	257. Rayleigh-Bénard Poiseuille of a yield stress fluid: linear and weakly nonlinear analysis <i>C. Metivier</i>	413. Damping of pressure waves in a porous medium saturated with an oil-water mixture <i>X. Tu</i>	264. Feedback control of laminar wake flows based on point-vortex models <i>B. Protas</i>	272. Molecular dynamics of polymers in a mesoscale solvent: the effect of shear <i>M. Chinappi</i>	280. Study of double diffusive finger convection in Hele-Shaw cell <i>K. R. Sreenivas</i>
15:15	243. Interfacial instabilities on horizontally vibrated liquids <i>A. Juel</i>	398. Magnetic dipole induction by the spin-over mode of the elliptic instability in a rotating liquid metal sphere <i>W. Herreman</i>			<i>Discussion</i> Mini-symposium <i>Two phase flows</i>	265. Passive drag control of a sharpened edge cylinder using a secondary cylinder <i>B. Thiria</i>	273. Transport coefficients and orientational distributions of spheroidal particles with magnetic moment normal to the particle axis <i>A. Satoh</i>	281. A reduced model for 3D heat and mass transport in PEFCs <i>P. A. Yakubenko</i>

15:30 Coffee break

Session S9

The number preceding the title corresponds to the page in the book of abstracts

	E1 Hydrodynamic instabilities V	E2 Mini-symposium Swirling flows	E31 Stability of pipe flows	E36 Numerical techniques and simulations III	D1 Mini-symposium Two phase flows	D2 Microfluidics I	D3 Turbulent diffusion	D31 Vortex dynamics IV
<i>Chair</i>	<i>M. Nagata</i>	<i>H. Andersson & M. Braza</i>	<i>R. R. Kerswell</i>	<i>S. Zahrai</i>	<i>D. Lohse</i>	<i>S. M. Troian</i>	<i>J. H. M. Fransson</i>	<i>P. Orlandi</i>
16:00	282. Rayleigh instabilities in incompressible and supersonic boundary layers <i>K. W. Cassel</i>	399. Influence of a strong swirl on the stability of an annular flow <i>N. Bleier</i>	288. Resolvent bounds for pipe Poiseuille flow <i>G. Kreiss</i>	294. Simulation of shock waves dynamics in ICF capsule implosion <i>B. Rebouret</i>	414. Non-universal features of moving contact lines <i>J. H. Snoeijer</i>	300. Optimization of geometry and chaotic mixing protocol in DNA chip technology <i>A. Beuf</i>	306. Clustering of inertial particles falling through turbulence <i>E. Hascoët</i>	310. The effects of solid boundaries on confined 2D turbulence <i>H. J. H. Clercx</i>
16:15	283. The instability of the moving wall boundary layer <i>A. Merlen</i>	400. The structure of the critical layer of a swirling annular flow transition <i>J. Hussong</i>	289. Transient nature of turbulence in pipe flow <i>B. Hof</i>	295. Barotropic flow modelling of sheet cavitations <i>A. H. Koop</i>		301. Turbulent flow investigations in a micro-channel <i>S. Blonski</i>	307. The intermediate asymptotics of turbulent diffusion <i>M. Iovieno</i>	311. Reconnection of vortices without or with axial flow <i>I. Delbende</i>
16:30	284. Linear and non-linear development of inviscid perturbations on an infinite shear flow <i>L. H. Gustavsson</i>	401. Coherent structures in annular and co-annular swirling jets <i>M. Garcia-Villalba</i>	290. Impulsive perturbations in pipe flow: from numerics to experiments and theory <i>F. Mellibovsky</i>	296. 3D RANS modelling of bottom and bank stability subjected by ship propeller jets <i>I. Brovchenko</i>	415. Drops sliding down an incline: flow structure and interface geometry <i>L. Limat (cont.)</i>	302. Stokes flow around a micro cylinder rolling on a plane: application to peristaltic microchannels <i>A. Merlen</i>	308. Evolution of molecular tracer dots in turbulence <i>M. Pashtrapanska</i>	312. Characterization of the fluctuating flow-field in the near-wake of a triangular prism <i>G. Buresti</i>

Session S9

	E1	E2	E31	E36	D1	D2	D3	D31
16:45	285. Generation of highly-oblique Tollmien-Schlichting waves in a laminar boundary layer by free-stream turbulence <i>P. Ricco</i>	402. Mixing characteristics in the near-field of a swirling jet <i>R. Örlü</i>	291. Developing instabilities in decaying pipe flow <i>J. P. Denier</i>	297. Low-order modelling of 3D laminar flows past a confined square cylinder <i>M. R. Buffoni</i>	<i>Cont.</i>	303. Liquid flow over a regular array of shear free interfaces <i>C. Pirat</i>	309. Depletion of horizontal pair diffusion in vertically stratified turbulence <i>K. Sung</i>	313. The effect of forcing amplitude on vortex strength, drag and Reynolds stresses in the wake of a cylinder in oscillating flow <i>E. Konstantinidis</i>
17:00	286. Non-linear interaction of streaks and Tollmien-Schlichting waves in boundary layer flows <i>S. Bagheri</i>	403. Nonlinear wave structures in swirling columnar flows <i>A. Ni</i>	292. Secondary instability in pipe flow: optimal axisymmetric and helical deviations <i>G. Ben-Dov</i>	298. Two and three dimensional computation of highly swirling flow in a high aspect ratio hydrocyclone with Reynolds stress turbulence models <i>M. Besharati-Givi</i>	416. Influence of fibres on length scales in decaying turbulence <i>F. Lundell</i>	304. Creating thin layers at the contact surface of two nonmixing liquids <i>A. Slowicka</i>		314. Flows in a rectangular cavity due to symmetric surface forcing <i>J. McHugh</i>
17:15	287. Numerical simulation of laminar-turbulent transition in the Stokes layer subjected to outer-flow turbulence <i>M. V. Ustinov</i>	<i>Discussion</i> Mini-symposium <i>Swirling flows</i>	293. Direct numerical simulation of turbulent pipe Poiseuille flow <i>P.-O. Åsén</i>	299. Hybrid modelling of flow around a wind turbine rotor in yaw <i>F. Massouh</i>	417. Fibre orientation in the presence of solid boundaries <i>A. Carlsson</i>	305. Picoliter droplet formation using a thin fiber <i>S. Uemura</i>		315. Vortical structures generated by a time varying jet flow in a ventilated enclosure <i>P. Å. Elvsén</i>

8:30	Invited Lecture 6							
	F1 <i>Chair: A. Kluwick</i> VII. Fluid mechanics of phase change Gustav Amberg							
9:15	Invited Lecture 7							
	F1 <i>Chair: A. V. Johansson</i> VIII. Premixed turbulent combustion based on the level set approach Norbert Peters							
10:00	Coffee break							
10:30	Session S10							
	The number preceding the title corresponds to the page in the book of abstracts							
	E1	E2	E31	E36	D1	D2	D3	D31
	Wake instabilities	<i>No session</i>	Hydrodynamic instabilities VI	Numerical techniques and simulations IV	Multiphase flows VII	Microfluidics II	Turbulence IV	Reactive flows
<i>Chair</i>	<i>J. Sørensen</i>		<i>O. S. Kerr</i>	<i>S. Zahrai</i>	<i>G. J. F. van Heijst</i>	<i>C. Baroud</i>	<i>A. V. Johansson</i>	<i>T. Burden</i>
10:30	316. Onset and characteristics of the oscillatory motion of axisymmetric bodies rising freely in a low-viscosity liquid <i>P. Ern</i>		322. Experimental observation of the periodical solutocapillary Marangoni convection <i>A. Viviani</i>	327. Selection of the convective rolls in a thin layer of evaporating liquid blown up by an air current <i>G. V. Rybushkina</i>	332. Granular micro ripples in a capillary tube <i>F. Zoueshtiagh</i>	337. Interaction of a pair of bubble in Hagen-Poiseuille flow <i>D. Das</i>	343. Tracer particles in turbulent superfluid helium II <i>Y. A. Sergeev</i>	348. An experimental and numerical study of gas turbine combustion <i>C. Fureby</i>
10:45	317. A synthetic perturbative hypothesis for multiscale analysis of bluff-body wake instability <i>D. Tordella</i>		323. Pendular thermovibrational convection <i>A. Ivanova</i>	328. Mixed turbulent convection in an asymmetrically-heated isothermal plane channel <i>M. M. H. Khalil</i>	333. Fluctuation decay in a sedimenting suspension <i>E. S. Asmolov</i>	338. Surface modes and sound emitted by bubbles in an acoustic field <i>B. Dollet</i>	344. Recent developments in superfluid turbulence <i>C. F. Barenghi</i>	349. Large eddy simulation of a swirling flame during flashback <i>C. Duwig</i>
11:00	318. Local and global instabilities in the wake of a sphere <i>B. Pier</i>		324. On existence of stationary 3-D waves on falling liquid films <i>S. M. Kharlamov</i>	329. Solutions of the Boltzmann equation for microflow problems <i>V. V. Aristov</i>	334. Modelling of turbulence with strong intermittency "seen" by light solid particles; LES with stochastic process at sub-grid scales <i>A. Chtab</i>	339. Bouncing droplets trajectories <i>S. Dorbolo</i>	345. LES modelling of decaying compressible MHD turbulence <i>A. S. Petrosyan</i>	350. Effect of the reversibility of the chemical reaction on planar premixed flames and their stability <i>J. Daou</i>

Session S10

	E1	E2	E31	E36	D1	D2	D3	D31
11:15	319. Linear stability and receptivity analysis of the vortex shedding in flows past confined square cylinders <i>S. Camarri</i>		325. Wave flow regimes on a film of a non-Newtonian fluid <i>O. Y. Tselodub</i>	330. Modeling of complex fluid dynamics with phase transitions <i>G. V. Sandrakov</i>	335. Bursting of a fluid film in a viscous environment <i>E. Reyssat</i>	340. Sound absorption of bubbles in inkjet-printer microchannels <i>R. Jeurissen</i>	346. Master-modes of the 3D turbulent channel flow <i>S. I. Chernyshenko</i>	351. Water mist effects on flame mitigation <i>M. T. Parra</i>
11:30	320. An experimental and theoretical study of flag flutter <i>C. Souilliez</i>		326. Statistical analysis of coherent structures in transitional pipe flow <i>T. B. Schneider</i>	331. Gas-enrichment at liquid-wall interfaces <i>S. M. Dammer</i>	336. Spreading and evaporation of liquid droplets on heated surfaces <i>V. S. Ajaev</i>	341. Characterization of nanobubbles by atomic force microscopy <i>S. Yang</i>	347. The decay of turbulence generated by fractal grids <i>R. E. Seoud</i>	352. Viscous oscillation of a liquid shear flow in an exothermic reacting pipe <i>S. Fujioka</i>
11:45	321. Laboratory and numerical modelling of far wake flow in a stratified fluid <i>Y. I. Troitskaya</i>					342. Active mixing control in a small-scale channel <i>S. Izawa</i>		
12:00	Lunch							
13:30	Invited Lecture 8				F1			
	<i>Chair: P. Huerre</i>							
	IX. Generation of magnetic fields by turbulent flows of liquid metals Stephan Fauve							
14:15	Young scientist award and closing ceremony							