



# AERC 2024 Leeds



**Anton Paar**





## Welcome to Leeds to the Annual European Rheology Conference 2024

We look forward to seeing you in person at the Welcome Reception in the University's Great Hall at 6pm on Tuesday. The main conference kicks off in the conference auditorium with a plenary lecture from Anke Lindner on "From individual trajectories to collective motion in suspensions of E-coli bacteria". After coffee, we begin our parallel sessions with contributed talks: there are eight parallel sessions which, over the three conference days, will include a total of 313 talks including keynotes. All parallel sessions take place in the iconic Roger Stevens Building.

On Wednesday evening we have our poster session taking place in the Exhibition Centre in the Sports Hall, which is also where all coffee and lunch breaks will take place, and where you can meet up with our sponsors and exhibitors. Posters can remain on display for the entire conference, giving you plenty of opportunity to see as many as possible. At the poster session itself you can sample various craft beers from the local Kirkstall Brewery.

On Thursday morning we will hear from the two prize winners from the European Society of Rheology: the Oldroyd awardee Qian Huang and the Weissenberg awardee Olivier Pouliquen. Congratulations to them both! At the end of the day we head to the Royal Armouries for the conference dinner. A pre-dinner drink in the Asia and Africa Gallery gives you chance to see some of the priceless objects from the Middle East, Asia, and Africa and to watch a demonstration of combat in medieval armour.

Finally, on Friday we will conclude with a plenary lecture from Randy Ewoldt on entitled "Protorheology" (concerning approximate quantitative inference from simple observations!).

We express our particular thanks to Susan Tattersall and her team at the Leeds University conference office for all their help in organising this meeting!

We very much hope that you have a fruitful and interesting time, and that you enjoy your stay in the North of England.

With best wishes for a great conference,  
**Oliver Harlen, Daniel Read and Rob Poole.**

## Welcome from the British Society of Rheology

The British Society of Rheology (BSR) would like to extend a warm welcome to all the delegates of the AERC 2024 at Leeds! The BSR's objective is to promote the science and the dissemination of rheology to all. We welcome world-wide members from all stages of academic life and industry. We organise scientific meetings, invite award/medal nominations, fund various grants including travel and summer student bursaries, provide training resources, and publish our long-established bulletin three times a year. We provide a forum and network to facilitate your research studies and collaborations. If you have an interest in Rheology, visit our website ([bsr.org.uk](http://bsr.org.uk)) and join our Society today!

**Maria Charalambides** - BSR President

## AERC Venues

The University of Leeds was founded in 1904 but its origins date back further to the Yorkshire College of Science founded in 1874 and the Leeds School of Medicine founded in 1831. It is one of the largest universities in the UK with over 38,000 students currently enrolled from over 170 countries. It has a single campus covering 40 hectares located just over one mile from Leeds city centre.



### Great Hall Welcome Reception from 6pm Tuesday 9 April

The Great Hall is a Grade II listed Gothic Revival building featuring a beautiful redbrick exterior designed by English architect Alfred Waterhouse, who also designed the Natural History Museum in London. It is the focus for the University's ceremonial activities, including the graduation ceremonies.



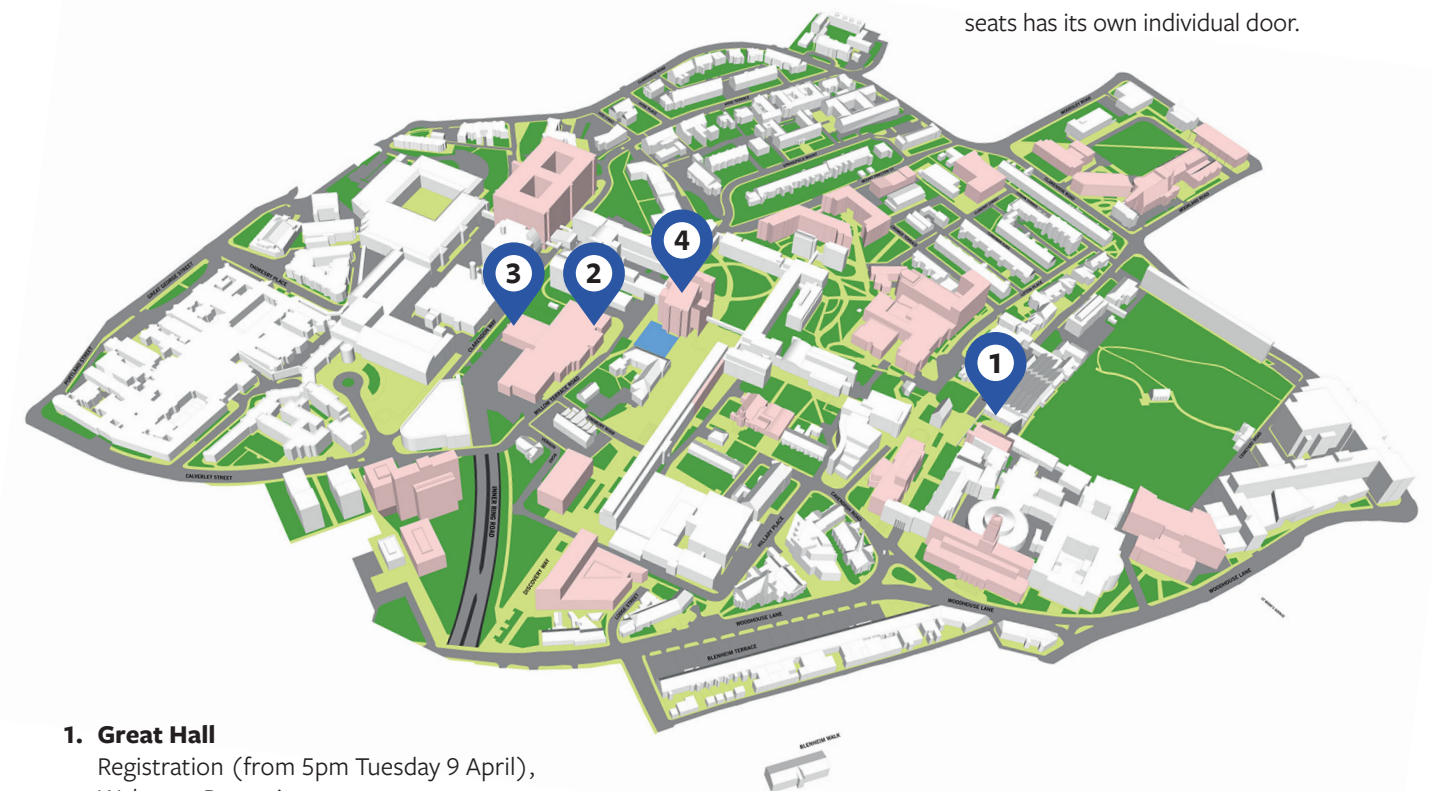
### Conference Auditorium Plenary sessions

The conference auditorium was the original location of the Leeds Playhouse Theatre from 1970 until 1990 when the Theatre relocated to Quarry Hill as the West Yorkshire Playhouse. The building was subsequently refurbished in 2003 to provide two large capacity lecture theatres.



### Roger Stevens Building Parallel sessions

With its striking Brutalist exterior, the Roger Stevens Lecture Theatre building is the centrepiece of the complex of grade II listed buildings that make up the southern part of the University of Leeds campus. It was designed by Chamberlin, Powell and Bon who also designed the Barbican Centre in London. The building contains 25 tiered lecture theatres of varying capacities linked by three internal staircases so that each row of seats has its own individual door.



- 1. Great Hall**  
Registration (from 5pm Tuesday 9 April),  
Welcome Reception
- 2. Exhibition Centre**  
Registration (from 8am Wednesday 10 April),  
Exhibition, Poster boards, Catering
- 3. Conference Auditorium**  
Plenaries
- 4. Roger Stevens**  
Parallel sessions



## Places of interest

### Leeds City Museum

Find out the history of Leeds and see artefacts from across the globe at our free city centre Museum. 1km from the University.

### Leeds Industrial Museum

Explore industries that helped shape Leeds into the city it is today and take a seat in our in-house cinema. 2 km from the University.



Leeds City Museum

### Thackray Museum of Medicine

A museum of the history of medicine adjacent to St James's University Hospital. 2.7 km from the University.

### Leeds Art Gallery

A world of art in the heart of the city. Leeds Art Gallery presents a dynamic exhibition programme and holds a significant collection of modern and contemporary British art.



Leeds Art Gallery

## Places to eat

### Gaicho

Bringing a slice of Argentina to Leeds, dine with us at our steakhouse in Leeds city centre. During the week relax with colleagues over a cocktail after Conference at our bar, or a leisurely dinner.

### Rudy's Pizza

Rudy's is one of the most popular pizza restaurants in Leeds. The venue offers a casual and affordable menu and just really good pizza.

### Sarto

SARTO is a bar and restaurant in Leeds, centred around fresh, handmade pasta.

### Tattu Restaurant

At Tattu Leeds attention to detail is always a priority, from the Chinese-inspired cuisine to the innovative cocktails our bartenders create.

### Tharavadu

The First authentic Kerala Restaurant in Leeds has become one of the favourite dining spots of the region in a very short span of time. Tharavadu entered in to the top 10 restaurants in Leeds within the first week of opening in Tripadvisor.

### Whitelock's

Built in 1715, and with its current famous interior dating from the late 1800s, Whitelock's is the oldest public house in Leeds. Serving a wide selection of real ale and craft beers – many from Yorkshire breweries – alongside a menu of fresh, home-cooked and locally sourced food.



Briggate in Leeds

## Sponsors

We thank all our sponsors for their generous contributions towards making this conference a success.

### PLATINUM SPONSOR



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### EXHIBITORS



### POSTER PRIZE SPONSORS





## Technical Sessions & Chairs

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### Colloids and Glasses

- Michel Cloitre
- Johan Mattsson
- George Petekidis

### Polymeric Fluids

- Francesco Del Giudice
- Richard Graham
- Evelyne van Ruymbeke

### Emulsions, Foams and Interfacial Rheology

- Simon Cox
- Thibaut Divoux
- Nick Jaensson

### Microrheology and Microfluidics

- Sepideh Khodaparast
- Anke Lindner
- Monica Oliveira

### Experimental Methods and New Rheometric Techniques

- Christian Clasen
- Dan Curtis
- Manlio Tassieri

### Suspensions and Granular Materials

- Erin Koos
- Wilson Poon
- Olivier Pouliquen

### Food Rheology

- Jan Engmann
- Peter Fischer
- Brent Murray

### Non-Newtonian Fluid Mechanics and Flow Instabilities

- Marco Ellero
- Stylianos Varchanis
- Helen Wilson

### Industrial Rheology, Sustainability and Additive Manufacturing

- Esther Garcia Tunon
- Claire McIlroy
- Sylvie Vervoort

### Bio-rheology, Living and Active Matter

- Laura Casanellas
- Alexander Morozov
- Christian Wagner

### Geo-rheology

- Janine Kavanagh
- Edward Llewellyn
- Sandra Piazzolo

### Soft Solids and Viscoplastic Fluids

- Maria Charalambides
- Mazyar Jalaal
- Ian Wilson





8:20	ARRIVAL COFFEE Exhibition Hall							
8:45	OPENING CEREMONY Conference Auditorium							
9:00	PL1. From individual trajectories to collective motion in suspensions of E-coli bacteria. <a href="#">A. Lindner</a> Conference Auditorium							
10:00	COFFEE BREAK Exhibition Hall							
	<b>LT 1 (Level 7)</b> Micro-rheology and Microfluidics <b>Mónica Oliveira</b>	<b>LT 17 (Level 7)</b> Polymeric Fluids <b>Vincenzo Calabrese</b>	<b>LT 6 (Level 8)</b> Colloids and Glasses <b>George Petekidis</b>	<b>LT 18 (Level 8)</b> Suspensions and Granular Materials <b>Olivier Pouliquen</b>	<b>LT 23 (Level 8)</b> Bio-rheology, Living & Active Matter <b>Olivia du Roure</b>	<b>LT 11 (Level 10)</b> Soft Solids & Viscoplastic Fluids <b>Maria Charalambides</b>	<b>LT 19 (Level 10)</b> Emulsions, Foams & Interfacial Rheology <b>Thibaut Divoux</b>	<b>LT 24 (Level 10)</b> Non-Newtonian Fluid Mech. & Flow Instbl. <b>Otti Tammisola</b>
10:30	<b>MR1.</b> Margination of blood cells. <a href="#">C. Wagner</a>	<b>PF1.</b> Monitoring isothermal crystallization of poly(butylene succinate) (PBS) using rheo-dielectric measurements. <a href="#">H. Y. Song</a> and <a href="#">M. Wilhelm</a>	<b>CG1.</b> Analysis of Thixotropic Timescale. <a href="#">Y. M. Joshi</a>	<b>SG1.</b> Onsager-symmetric constitutive laws for 3D granular flow in the inertial regime. <a href="#">T. Barker</a> , <a href="#">Y. Hu</a> and <a href="#">D. Schaeffer</a>	<b>BL1.</b> Structural and rheological evaluation of collagen hydrogels for tissue regeneration. <a href="#">K. Lyroni</a> , <a href="#">D. Vlassopoulos</a> , <a href="#">D. Tzeranis</a> and <a href="#">M. Cloitre</a>	<b>SV1.</b> Shear banding as a cause of non-monotonic stress relaxation. <a href="#">V. K. Ward</a> and <a href="#">S. M. Fielding</a>	<b>EF1.</b> Role of interfacial viscoelasticity on shear-induced deformation of MXene-covered droplets. <a href="#">B. Attaianesi</a> and <a href="#">R. Cardinaels</a>	<b>NF1.</b> Global nonlinear stability of Oldroyd-B fluids in plane Couette flow. <a href="#">A. Wynn</a>
10:50	<b>MR2.</b> Rigid and flexible micro-disks under viscous flows. <a href="#">A. de la Sen</a> , <a href="#">A. Lindner</a> and <a href="#">O. du Roure</a>	<b>PF2.</b> Unveiling the restricted mobility of carbon nanotubes inside a long chain branched polymer matrix via measuring the rheological behavior and conductivity under shear flows. <a href="#">J. Li</a> , <a href="#">A. Maazouz</a> and <a href="#">K. Lamnawar</a>	<b>CG1 continues</b>	<b>SG2.</b> Unsteady rheology of dense inertial granular flows. <a href="#">W. Wang</a> , <a href="#">J. Sun</a> and <a href="#">E. C. Breard</a>	<b>BL2.</b> Bridging the gap between bulk rheology and local deformations in cell-embedded collagen via rheo-confocal microscopy. <a href="#">M. Tavasso</a> , <a href="#">N. Irène</a> , <a href="#">I. Muntz</a> , <a href="#">G. H. Koenderink</a> and <a href="#">P. E. Boukary</a>	<b>SV2.</b> Using surface charge to manipulate slip of yield-stress fluids at solid surfaces. <a href="#">E. M. Sutton</a> , <a href="#">A. A. Papaderakis</a> , <a href="#">S. G. Subramanian</a> , <a href="#">R. A. Dryfe</a> , <a href="#">F. Box</a> , <a href="#">C. P. Fonte</a> and <a href="#">A. Juel</a>	<b>EF2.</b> Interfacial shear rheology of lipid films on water contaminated by amyloid protein. <a href="#">J. Peixinho</a> , <a href="#">H. Uchôa</a> , <a href="#">P. R. Varges</a> , <a href="#">E. P. Marin Castaño</a> , <a href="#">N. A. Rey</a> , <a href="#">M. F. Naccache</a> and <a href="#">P. R. de Souza Mendes</a>	<b>NF2.</b> The role of elastic instability on the self-assembly of particle chains in simple shear flow. <a href="#">M. G. Smith</a> , <a href="#">G. M. Gibson</a> , <a href="#">A. Link</a> , <a href="#">A. Raghavan</a> , <a href="#">A. Clarke</a> , <a href="#">T. Franke</a> and <a href="#">M. Tassieri</a>
11:10	<b>MR3.</b> Brain rheology: Exploring extensional characteristics of brain-mimicking ultrasoft gels in two-phase microfluidic flow. <a href="#">A. Hussain</a> and <a href="#">H. S. Lee</a>	<b>PF3.</b> Distribution of Mechanical Properties in Poly(ethylene oxide) / silica Nanocomposites under Deformation: From the Glassy towards the Melt Regime. <a href="#">H. REDA</a> and <a href="#">V. Harmandaris</a>	<b>CG2.</b> Innovative conductive hydrogels for biomedical applications. <a href="#">N. A. Di Spirito</a> , <a href="#">N. Grizzuti</a> and <a href="#">R. Pasquino</a>	<b>SG3.</b> The behaviour of rotating intruders in dense granular beds. <a href="#">R. Burton</a>	<b>BL3.</b> Stress-ramp during gelation of collagen triggers a tenfold surge in strength and alignment beyond prior limits. <a href="#">L. M. Dedroog</a> , <a href="#">M. P. Lettinga</a> , <a href="#">E. Koos</a> , <a href="#">A. Vananroye</a> , <a href="#">O. Deschaume</a> , <a href="#">C. Bartic</a> , <a href="#">Y. de Coene</a> , <a href="#">W. Thielemans</a> and <a href="#">M. Bouzid</a>	<b>SV3.</b> Stress and boundary sensitivity in hydrogel particle packing flow behavior. <a href="#">J. A. Dijkstra</a> and <a href="#">T. Mullin</a>	<b>EF3.</b> 3D shape of sheared droplets in low viscosity emulsions: the effect of inertia. <a href="#">V. Preziosi</a> , <a href="#">A. Tarafder</a> , <a href="#">G. Tomaiuolo</a> , <a href="#">G. Tomaiuolo</a> , <a href="#">K. Sarkar</a> , <a href="#">S. Guido</a> and <a href="#">S. Guido</a>	<b>NF3.</b> Aerosolization mechanisms of saliva during speech. <a href="#">T. Xabada</a> , <a href="#">R. Brandão</a> , <a href="#">H. A. Stone</a> , <a href="#">C. Ligoure</a> and <a href="#">M. Abkarian</a>
11:30	<b>MR4.</b> Microfluidic rheology of vesicle prototissues. <a href="#">M. Layachi</a> , <a href="#">R. Merindol</a> and <a href="#">L. Casanellas</a>	<b>PF4.</b> Controlling the flow behavior of ABA triblock copolymer-based networks by microphase separation. <a href="#">C. Coutouly</a> , <a href="#">E. van Ruymbeke</a> and <a href="#">C.-A. Fustin</a>	<b>CG3.</b> The central role of colloids to explain the crystallization dynamics of halide perovskites. <a href="#">D. Amoroso</a> , <a href="#">G. Nasti</a> , <a href="#">M. M. Villone</a> , <a href="#">T. Kodalle</a> , <a href="#">C. M. Sutter-Fella</a> , <a href="#">P. L. Maffettone</a> and <a href="#">A. Abate</a>	<b>SG4.</b> Flow of a granular material through a forest of obstacles. <a href="#">B. Darbois Texier</a>	<b>BL4.</b> Rheological and mechanical characterization of hydrogel beads as artificial erythrocytes for multiphase blood flow measurements. <a href="#">G. Hentschel</a> , <a href="#">C. M. Winkler</a> , <a href="#">F. Rummel</a> , <a href="#">K. Nikutta</a> , <a href="#">M. Müller</a> and <a href="#">B. Glasmacher</a>	<b>SV4.</b> Delayed material failure after straining in elastic networks. <a href="#">S. Walker</a> and <a href="#">S. M. Fielding</a>	<b>EF4.</b> Simultaneous Interfacial Rheology and Neutron Reflectometry studies of interfacial films. <a href="#">P. Sanchez-Puga</a> , <a href="#">J. Carrascosa-Tejedor</a> , <a href="#">M. Rodriguez-Hakim</a> , <a href="#">J. Tajuelo</a> , <a href="#">A. Maestro</a> , <a href="#">P. Gutfreund</a> and <a href="#">M. A. Rubio</a>	<b>NF4.</b> Transition sequences of 1D, 2D nanomaterials and their hybrids in Taylor-Couette flow. <a href="#">K. Sekar</a> , <a href="#">V. Ghai</a> , <a href="#">A. E. Terry</a> , <a href="#">K. Nygård</a> and <a href="#">R. Kádár</a>
11:50	<b>MR5.</b> Microfluidic model of micro-haemodynamics. <a href="#">Q. Chen</a> , <a href="#">E. Doman</a> , <a href="#">O. Jensen</a> , <a href="#">I. Chemyavsky</a> and <a href="#">A. Juel</a>	<b>PF5.</b> Phase separation in Styrene Butadiene block copolymer solutions: effects of solvent quality and polymer polydispersity. <a href="#">G. Paradiso</a> , <a href="#">M. Gamberoni</a> , <a href="#">S. Coppola</a> , <a href="#">I. Perna</a> , <a href="#">R. Ferraro</a> and <a href="#">S. Caserta</a>	<b>CG4.</b> Compression of capillary suspension networks with and without nanoparticles. <a href="#">L. L. Liu</a> , <a href="#">J. Allard</a> and <a href="#">E. Koos</a>	<b>SG5.</b> Effect of nanocomposites on crystallization of waxy crude oils. <a href="#">N. Rosso</a> , <a href="#">R. Gimenes</a> , <a href="#">J. A. Abdala</a> , <a href="#">G. Muhlstedt</a> and <a href="#">C. Negro</a>	<b>BL5.</b> Magnetic microwire rheometer reveals differences in hydrogel degradation via disulfide reducing agents. <a href="#">M. Braunreuther</a> , <a href="#">J. Arenhoevel</a> , <a href="#">R. Bej</a> , <a href="#">R. Haag</a> and <a href="#">G. Fuller</a>	<b>SV5.</b> Direct Evidence of Electric Double Layer (EDL) Repulsive Force Controlling the Time-dependent Behaviour of Clay Gels in the Structural Rejuvenation. <a href="#">Y.-K. Leong</a>	<b>EF5.</b> Interfacial rheological properties of pepsin-hydrolyzed lentil protein isolate at oil-water interfaces. <a href="#">C. Chutinara</a> , <a href="#">L. Sagis</a> and <a href="#">J. Landman</a>	<b>NF5.</b> Three-dimensional elastic instabilities in the flow of viscoelastic and elastoviscoplastic fluids around a confined circular cylinder. <a href="#">K. T. Iqbal</a> , <a href="#">S. Parvar</a> and <a href="#">O. Tammisola</a>
12:10	<b>MR5 continues</b>	<b>PF6.</b> The linear and nonlinear rheological properties of Polylactic acid/Low-density polyethylene blends with different hydrophobicity inorganic fillers. <a href="#">M. Kim</a> and <a href="#">K. Hyun</a>	<b>CG5.</b> Spreading of Glass-Forming Fluids. <a href="#">T. Voigtmann</a> and <a href="#">L. Heitmeier</a>	<b>SG6.</b> Rheological modelling of elongated particles. <a href="#">N. R. Berry</a> , <a href="#">S. Haeri</a> and <a href="#">J. Sun</a>	<b>BL6.</b> Theoretical and experimental determination of hydrogel mesh size distribution combining rheology and low field NMR. <a href="#">S. Mezzasalma</a> , <a href="#">M. Abrami</a> , <a href="#">G. Grassi</a> and <a href="#">M. Grassi</a>	<b>SV6.</b> Rheo-optics of giant micelles: SALS patterns of CTAT solutions in presence of sodium bromide. <a href="#">J. E. Lopez-Aguilar</a> , <a href="#">M. Romero-Urena</a> , <a href="#">L. Medina-Torres</a> and <a href="#">O. Manero</a>	<b>EF6.</b> rheoFoam: An open-source package for interfacial rheology simulations implemented in OpenFOAM. <a href="#">A. Esteban</a> , <a href="#">J. Hernández</a> , <a href="#">J. Tajuelo</a> and <a href="#">M. A. Rubio</a>	<b>NF6.</b> Linear stability analysis of the viscoelastic flow around a confined cylinder. <a href="#">A. Spyridakis</a> , <a href="#">P. Moschopoulos</a> , <a href="#">Y. Dimakopoulos</a> and <a href="#">J. Tsamopoulos</a>
12:30	LUNCH Exhibition Hall							



	<b>LT 1 (Level 7)</b> Microrheology and Microfluidics <b>Marco Ellero</b>	<b>LT 17 (Level 7)</b> Polymeric Fluids <b>Michel Cloitre</b>	<b>LT 6 (Level 8)</b> Colloids and Glasses <b>Johan Mattsson</b>	<b>LT 18 (Level 8)</b> Suspensions and Granular Materials <b>Erin Koos</b>	<b>LT 23 (Level 8)</b> Bio-rheology, Living & Active Matter <b>Christian Wagner</b>	<b>LT 11 (Level 10)</b> Soft Solids & Viscoplastic Fluids <b>Ian Wilson</b>	<b>LT 19 (Level 10)</b> Non-Newtonian Fluid Mech. & Flow Instbl. <b>Manlio Tassieri</b>	<b>LT 24 (Level 10)</b> Non-Newtonian Fluid Mech. & Flow Instbl. <b>Emily Cook</b>
1:50	<b>MR6.</b> Dynamics of non-spherical particles in viscoelastic fluids flowing in a microchannel. <i>A. Langella, G. Franzino, P. L. Maffettone, D. Larobina and G. D'Avino</i>	<b>PF7.</b> Interaction between polymer grafted surfaces in a melt. <i>C. Psevdos, G. Ianniruberto, G. Marrucci, S. Coppola and F. Della Penna</i>	<b>CG6.</b> Predicting glass transition temperatures from chemical structure in poly(aryl ether ketones). <i>S. B. Croft, P. D. Olmsted, P. Hine, R. Mandle, J. Grasmeder, A. Chaplin and J. Mattsson</i>	<b>SG7.</b> Rheology of granular particles immersed in a molecular gas under uniform shear flow. <i>R. Gómez González and V. Garzó</i>	<b>BL7.</b> Understanding the rheology of semi-interpenetrating hydrogels. <i>I. Insua, M. Fernández, I. Calafel and R. Aguirresarobe</i>	<b>SV7.</b> Memory effects and delayed yielding in amorphous materials. <i>S. M. Fielding</i>	<b>NF41.</b> Unraveling the existence of asymmetric bubbles rising in viscoelastic fluids. <i>P. Moschopoulos, A. Spyridakis, Y. Dimakopoulos and J. Tsamopoulos</i>	<b>NF7.</b> Purely-elastic linear instabilities in parallel flows. <i>H. J. Wilson</i>
2:10	<b>MR7.</b> Enrichment of soft capsule suspensions under shear flow in confined vessels leads to clogging. <i>V. Ciccone, I. Chernyavsky and A. Juel</i>	<b>PF8.</b> Synthesis and Characterization of Di- and Tri-block copolymers serving as adaptative matrix in magneto-responsive nanocomposites. <i>S. Fritz, F. Dalmas, J. Bernard and G. P. Baeza</i>	<b>CG7.</b> Universal aspects of Fickian non-Gaussian diffusion in glass-forming liquids. <i>F. Rusciano, R. Pastore and F. Greco</i>	<b>SG8.</b> Effect of carboxymethyl cellulose and poly (acrylic acid) on the dispersion of silicon particles for lithium-ion batteries. <i>K. J. Kim and K. H. Ahn</i>	<b>BL8.</b> Adapting a Gaussian networking theory to model the dynamics of cross-linking within the cytoskeleton. <i>N. du Toit and K. K. Müller-Nedebock</i>	<b>SV7 continues</b>	<b>NF42.</b> Bursting bubbles in a viscoelastic medium. <i>V. Sanjay, A. Dixit, K. Zinelis, A. Oratis and D. Lohse</i>	<b>NF8.</b> A New Instability in Rectangular Duct Flows of Viscoelastic Fluids: a Time-Resolved Doppler OCT Approach. <i>K. Amini, F. Lundell and O. Tammisola</i>
2:30	<b>MR8.</b> Continuous Manufacturing of Microfluidic Fibers Embedded with Ordered Microparticles Combining Viscoelastic Ordering and Ionic Gelation. <i>F. Del Giudice, D. J. Adams, A. Maisto and D. McDowall</i>	<b>PF9.</b> Assessing the effect of functionalized polymers on filler dispersion in elastomer compounds. <i>S. Coppola, F. S. Grasso, M. Demaio, F. Della Penna, L. Franchini, M. V. Morbidelli and F. Bacchelli</i>	<b>CG8.</b> Glass transition and yielding of ultrasoft charged spherical micelles. <i>R. A. Mohamed Yunus, U. Y. Gurel, D. Truzzolillo, A. Guzik, M. Stuart, P. Raffa, A. Giuntoli and D. Parisi</i>	<b>SG9.</b> From bouncing space probes to toner powders. <i>S. Denis and N. Unterberger</i>	<b>BL9.</b> Impact of disassembling factor - cofilin - on dense branched actin cytoskeletal networks mechanics. <i>M. Kopeck, J. Heuvingh and O. du Roure</i>	<b>SV8.</b> Elasticity Meets Viscoplasticity: A tensorial, Yield-Stress free model for simple yield stress fluid. <i>G. Pagani, T. Tervoort and J. Vermant</i>	<b>NF43.</b> A three-equation shallow-flow model for Herschel-Bulkley fluids. Application to the simulation of natural hazards. <i>D. Denisenko, G. Richard and G. Chambon</i>	<b>NF9.</b> Fluid fingers formation and Oscillatory Kelvin-Helmholtz Instability in stratified miscible systems under sinusoidal perturbation. <i>L. D. Gala, D. Tammaro, M. De Corato, G. Fuller and P. L. Maffettone</i>
2:50	<b>MR9.</b> Clogging of interlocking particles in a 2D Hopper. <i>J. Tampier, A. Lindner and P. Bourrienne</i>	<b>PF10.</b> Time-Temperature Superposition for Mechanical Properties of Thermoplastics during Aging and Liquid-Solid Phase Transitions. <i>D. W. Auhl, O. Lösche, F. Porcher and P. Wang</i>	<b>CG9.</b> Soft and Responsive: Rheological Insights into PNIPAM based Microgels. <i>R. Angelini</i>	<b>SG10.</b> Dense suspensions under novel unsteady shear protocols. <i>N. K. Agrawal, Z. Ge, M. Trulsson, O. Tammisola, L. Brandt and L. Brandt</i>	<b>BL10.</b> Time Resolved SAXS and Rheology Reveal Key Formation Mechanisms of Folded Protein Networks. <i>M. D. Hughes, S. Cussons, A. Boroumand, D. J. Brockwell, A. Tyler and L. Dougan</i>	<b>SV9.</b> Yielding and double yielding through the lens of recovery rheology. <i>S. A. Rogers, J. J. Griebler and K. Kamani</i>	<b>NF44.</b> Contact line instabilities in non-Newtonian drops impacting on a solid surface. <i>D. Diaz, K. Amini, F. Lundell, S. Bagheri and O. Tammisola</i>	<b>NF10.</b> Effects of viscoelasticity on the inertial instability and mixing performance in a T-channel geometry. <i>R. J. Hill, M. Davoodi, C. P. Fonte and R. J. Poole</i>
3:10	COFFEE BREAK Exhibition Hall							
	<b>Microrheology and Microfluidics</b> <b>Sepideh Khodaparast</b>	<b>Industrial Rheology, Sust. &amp; Addt. Manf.</b> <b>Clare McIlroy</b>	<b>Colloids and Glasses</b> <b>Roberta Angelina</b>	<b>Suspensions and Granular Materials</b> <b>Baptiste Darbois Texier</b>	<b>Bio-rheology, Living &amp; Active Matter</b> <b>Christian Wagner</b>	<b>Soft Solids &amp; Viscoplastic Fluids</b> <b>Mazi Jalaal</b>	<b>Non-Newtonian Fluid Mech. &amp; Flow Instbl.</b> <b>Hugo Castillo</b>	<b>Non-Newtonian Fluid Mech. &amp; Flow Instbl.</b> <b>Andrew Wynn</b>
3:40	<b>MR10.</b> Enhanced colloidal particle trapping in microgrooved channels via diffusiophoresis. <i>N. Singh, G. Vladisavljevic, F. Nadal, C. Cottin-Bizonne, C. Pirat and G. Bolognesi</i>	<b>IR1.</b> Fresh cement as a frictional non-Brownian suspension. <i>J. A. Richards, H. Li, R. O'Neill, F. Laidlaw and J. Royer</i>	<b>CG10.</b> Nonlinear rheological behavior of hairy nanoparticles in their dense state. <i>J. Wan and X. Wang</i>	<b>SG11.</b> The approach of a sphere to a wall in a dense suspension. <i>A. Seguin, K. Zidi, B. Darbois-Texier and G. Gauthier</i>	<b>BL11.</b> Protein-Functionalised DNA Nanostar Hydrogels. <i>G. Palombo, Y. A. Gutierrez Fosado and D. Michieletto</i>	<b>SV10.</b> Insights into HydroxyPropyl(Methyl)Cellulose (HPMC) hydrogels: investigating degree and molar substitution effects via SAOS and LAOS experiments. <i>S. Perez-Robles, C. Carotenuto and M. Minale</i>	<b>NF45.</b> Rheology of polymer solution determines the early stage of the drop spreading. <i>P. Rostami and G. K. Auernhammer</i>	<b>NF11.</b> Recent Advances in Polymer Viscoelasticity From General Rigid Bead-Rod Theory. <i>A. J. Giacomin and M. Kalso</i>
4:00	<b>MR11.</b> Colloidal Ratchet Effect in a Viscoelastic Fluid. <i>G. Camacho, P. Tierno, S. Kantorovich, P. A. Sánchez and J. de Vicente</i>	<b>IR2.</b> The potential of gellan gum as an alternative polymer binder in toothpastes. <i>G. A. Redpath, T. W. Overton, E. Pelan, L. Manus and A. Potanin</i>	<b>CG11.</b> Numerical modelling of agglomerate formation under shear flow. <i>A. Rahmat, A. Alexiadis and M. Barigou</i>	<b>SG12.</b> A minimal continuum model of clogging in spatiotemporally varying channels. <i>A. Heralé, D. Hewitt and P. Pearce</i>	<b>BL12.</b> Challenges of injectable hydrogel characterization. <i>A. Ryl and P. Owczarz</i>	<b>SV11.</b> Scaling laws for near-wall flows of thixo-elasto-viscoplastic fluids based on high resolution OCT-based velocimetry. <i>A. A. Mishra, K. Amini, A. K. Sivakumar, D. Arlov, O. Tammisola, F. Lundell and R. Kádár</i>	<b>NF46.</b> When is an Elastocapillary Worthington jet formed?. <i>K. Zinelis, U. Sen, V. Sanjay, T. Abadie, O. Matar, D. Lohse and M. Jalaal</i>	<b>NF12.</b> The shear rheology of a suspension of flat elastic particles via molecular dynamics. <i>L. R. Debono, H. J. Wilson and L. K. Davis</i>
4:20	<b>MR12.</b> Fluid dynamics of coffee extraction. <i>M. Ellero, C. Mo, L. Navarini, F. Suggi Liverani and R. Johnston</i>	<b>IR3.</b> PVDF/Organocarbonate thermoreversible gels: a thermal, rheological, and conformational study. <i>D. Nocita, G. Thompson, T. D. Gough, A. L. Kelly and P. D. Coates</i>	<b>CG12.</b> Three-layer orthotropic organization of cellulose nanocrystals achieved through the combined action of frontal ultrafiltration and ultrasound revealed by in situ SAXS. <i>F. Pignon, Guilbert, Mandin, Bosson, Hengl, Karrouch, Jean, Putaux, Gibaud, Manneville, Narayanan</i>	<b>SG13.</b> Rheological Exploration of Irregular Porous Particle Suspensions in Newtonian Solvents: Characterization, Interactions, and Microstructural Evolution. <i>J. Vargas, C. Carotenuto, F. B. Cortés, C. A. Franco and M. Minale</i>	<b>BL13.</b> Human semen viscoelasticity and its relation to male infertility. <i>G. Tomaiuolo, V. Preziosi, S. Guido, G. Tomaiuolo and S. Guido</i>	<b>SV12.</b> A simple experiment to measure interfacial tension of yield stress materials. <i>P. R. de Souza Mendes, E. P. Marin, P. R. Vargas and C. R. Barreto</i>	<b>NF47.</b> A Computational Rheology study of the Dripping onto a Substrate (DoS). <i>T. Abadie, K. Zinelis, G. H. McKinley and O. Matar</i>	<b>NF13.</b> Transitory complex flows in simple shear motion – the influence of the Reynolds number. <i>C. Balan</i>
4:40	<b>MR13.</b> Elongational properties of low concentration Carbopol/PEO solutions by a flow focusing microfluidic technique. <i>A. I. Cirillo, F. Gallo, E. Longo, R. Graziano, G. Tomaiuolo and S. Guido</i>	<b>IR4.</b> Bottom-up approach for biodegradable polymers used in additive manufacturing: building computational tools to bridge the gaps. <i>P. Bacova, E. Christofi, V. Harmandaris and S. I. Molina</i>	<b>CG13.</b> The Contrasting Behavior of Strongly and Weakly Interfacially Active Asphaltenes on the Rheology of Model Waxy Oils. <i>A. Ali, Yaghy, Parameswaran, Hodges, Charpentier, Connell, Roberts and Harbottle</i>	<b>SG14.</b> Ultrasonic investigations of magneto-rheological fluids for use in ultrasonic metamaterial systems. <i>R. L. Watson</i>	<b>BL14.</b> The study of the human tear film: a microrheological approach. <i>A. Cardil Tomos, J. Ramos, M. Fernández, I. Calafel, A. Acera and J. F. Vega</i>	<b>SV13.</b> Effect of aeration on the rheology of viscoplastic fluids. <i>D. I. Wilson, B. Hallmark, D. Gibson, R. Rosario Fernandes, J. M. Peralta and S. E. Zorrilla</i>	<b>NF48.</b> Flow characteristics of microjets into viscoplastic fluids. <i>S. Mousavi, H. Hassanzadeh, F. Larachi and S. M. Taghavi</i>	<b>NF14.</b> A comparison between the FENE-P and sPTT constitutive models in large-amplitude oscillatory shear. <i>T. John, R. J. Poole, A. Kowalski and C. P. Fonte</i>
5:00	POSTER SESSION Exhibition Hall							
7:00	END							



# Thursday, 11 April 2024, Morning

8:10	ARRIVAL COFFEE Exhibition Hall							
8:40	<b>OL1.</b> Influence of macromolecular architectures and chemical structures on extensional rheology of polymer melts. <i>Q. Huang</i> (Oldroyd Lecture) Conference Auditorium							
9:10	<b>PL2.</b> How grains flow? The rheology of granular systems, from sand to sticky grains. <i>O. Pouliquen</i> (Weissenberg Lecture) Conference Auditorium							
10:10	COFFEE BREAK Exhibition Hall							
	<b>LT 1 (Level 7)</b> Emulsions, Foams & Interfacial Rheology <b>Alexandra Alicke</b>	<b>LT 17 (Level 7)</b> Polymeric Fluids <b>Evelyne van Ruymbeke</b>	<b>LT 6 (Level 8)</b> Soft Solids & Viscoplastic Fluids <b>Maria Charalambides</b>	<b>LT 18 (Level 8)</b> Suspensions and Granular Materials <b>Suzanne Fielding</b>	<b>LT 23 (Level 8)</b> Bio-rheology, Living & Active Matter <b>Clément de Loubens</b>	<b>LT 11 (Level 10)</b> Geo-rheology <b>Janine Kavanagh</b>	<b>LT 19 (Level 10)</b> Experimental Methods & New Rheo. Tech. <b>Dan Curtis</b>	<b>LT 24 (Level 10)</b> Non-Newtonian Fluid Mech. & Flow Instbl. <b>Rebecca Hill</b>
10:40	<b>EF7.</b> Bijel: soft matter or miniature universe? Effects of orientational order on modulated cylindrical interfaces. <i>R. M. L. Evans, J. Klebes and P. S. Clegg</i>	<b>PF11.</b> Universality in the Alignment-Induced Variation of Inter-Chain Interaction in Polymer Melts under Flows. <i>N. Jiang and E. van Ruymbeke</i>	<b>SV14.</b> Experimental and modelling investigation of the mechanical behaviour of chocolate at quasi-static and elevated strain rates. <i>T. K. Elezoglou, M. N. Charalambides and S. Rana</i>	<b>SG15.</b> Crowd evacuations can follow Suspensions' rules. <i>D. Hernández-Delfin, A. García and M. Ellero</i>	<b>BL15.</b> Physics and slowdown of the erythrocyte sedimentation rate. <i>A. Darras, T. John, L. Kaestner and C. Wagner</i>	<b>GR1.</b> Rheology of crystalline materials during diffusion creep: influence of grain coarsening and grain boundary sliding. <i>J. Wheeler, S. Piazzolo, L. Evans and R. Gardner</i>	<b>EM1.</b> High-frequency optimally windowed chirp rheometry for rapidly evolving viscoelastic materials: application to a crosslinking thermoset. <i>T. E. Athanasiou, M. Geri, P. Roose, G. H. McKinley and G. Petekidis</i>	<b>NF15.</b> Revisiting Expansion Flows of Viscoelastic Fluids. <i>J. L. Cummings, M. S. Oliveira and K. Zografos</i>
11:00	<b>EF8.</b> The role of proteins for stabilizing lung surfactant thin liquid films. <i>M. C. Novaes-Silva, B. Buhl, A. Collada and J. Vermant</i>	<b>PF12.</b> Fundamentals of the Oldroyd-B model revisited: Tensorial vs. vectorial theory. <i>B. Duenweg, A. Brunk, J. Chaudhuri and M. Lukacova-Medvidova</i>	<b>SV15.</b> Characterising the mechanical properties of soft solids through acoustics and rheology, exemplified by anhydrous milk fat. <i>M. J. Povey and D. I. Hefft</i>	<b>SG16.</b> Impact of shear-thickening capsules. <i>P. Bourrienne, E. Jambon-Puillet, H. A. Stone and P.-T. Brun</i>	<b>BL16.</b> A molecular-mechanical link in shear-induced self-assembly of a functionalized biopolymeric fluid. <i>G. E. Pavlovskaya and T. Meersmann</i>	<b>GR1 continues</b>	<b>EM2.</b> High-Frequency Linear Rheology via Ultrasound-Driven Microbubble Dynamics: Methodology and Experimental Validation. <i>Y.-F. Lee, C. Oelschlaeger and V. Garbin</i>	<b>NF16.</b> Theoretical analysis of viscous and viscoelastic flow through a cross-slot. <i>X. Ji and H. J. Wilson</i>
11:20	<b>EF9.</b> Complex Thin Film Morphologies via Multiple Motions of a Bubble Decorated with Surface-Active Molecules. <i>L. Lombardi, D. Tammara and P. L. Maffettone</i>	<b>PF13.</b> Extensibility governs the flow-induced alignment of polymers and rod-like colloids. <i>V. Calabrese, T. Porto Santos, C. G. Lopez, L. Minne Paul, S. J. Haward and A. Shen</i>	<b>SV16.</b> Rheology and yielding transitions in mixed kaolinite/bentonite suspensions. <i>A. Sha-keel, A. Kirichek and C. Chassa-gne</i>	<b>SG17.</b> Continuum modelling of dense suspensions with evolving relaxed states and flow-induced anisotropy. <i>G. G. Giusteri, L. Santelli and R. Seto</i>	<b>BL17.</b> Ordering of red blood cells in viscoelastic confined flows. <i>Y. Rashidi, I. Graham, P. E. Arratia, F. Del Giudice, C. Wagner and S. M. Recktenwald</i>	<b>GR2.</b> Unravelling the internal dynamics of low-temperature, wet pyroclastic density currents. <i>N. Walding, R. Williams, P. Rowley, N. Dowe, M. Thomas and S. Osman</i>	<b>EM3.</b> Beyond bio- and micro-rheology: an innovative method to investigate protein condensates viscosity and surface tension through correlative atomic force and fluorescence microscopies. <i>A. Santamaría, L. Costa, C. M. Doucet, S. Hutin, C. Zubieta and P.-E. Milhiet</i>	<b>NF17.</b> On the Astarita flowfield and stress responses in 2D steady, homogeneous viscoelastic flows. <i>R. J. Poole</i>
11:40	<b>EF10.</b> Thin liquid film rupture: Interplay between Marangoni flows and film break up. <i>L. Bidoire and J. Vermant</i>	<b>PF14.</b> A variable entanglement density constitutive model for entangled polymer systems from nonequilibrium thermodynamics. <i>P. S. Stephanou, D. G. Tsalikis, D. G. Tsalikis, V. G. Mavrantzas and V. G. Mavrantzas</i>	<b>SV17.</b> Morphology of center plug for viscoplastic Poiseuille flows with superhydrophobic walls. <i>A. Joulaei, R. Gowda, H. Rahmani and S. M. Taghavi</i>	<b>SG18.</b> Non-monotonic granular rheology under imposed stress and imposed volume. <i>C. Ness and S. M. Fielding</i>	<b>BL18.</b> Shear-Induced Accelerated Coagulation and Fibrinolysis in Oscillating Tube Flow. <i>S. Shin, J. Wang, S. Na, C.-S. Han and C. Zhang</i>	<b>GR3.</b> Particles sinking in non-Newtonian seawater: the role of exopolymers in modifying sedimentation processes. <i>M. M. Mro-kowska, A. Krzton-Maziopa and T. Chabło</i>	<b>EM4.</b> Puff rheometer for fast and contactless measurements of viscosity and surface tension. <i>C. R. van der Gracht, N. O. Jaenson, R. Cardinaels and R. Cardinaels</i>	<b>NF18.</b> Tensorial models for viscoelastic materials based on evolving relaxed states. <i>M. A. Al-rashdi and G. G. Giusteri</i>
12:00	<b>EF11.</b> Coalescence dynamics on a colloid-laden interface – Effect of particle wettability. <i>S. Migliozi, L. Chagot, C. L. Elton, E. Barros De Oliveira, S. Razavi and P. Angeli</i>	<b>PF15.</b> The relationship between the CCR parameter $\beta$ and polymer melt structure. <i>P. D. Olmsted, B. E. Dolata, T. O'Connor and M. A. Galvani Cunha</i>	<b>SV18.</b> Rheology of magnetic hydrogels for soft magnetic actuators. <i>F. J. Vazquez-Perez, C. Gila-Vilchez, A. Leon-Cecilia, L. Álvarez de Cienfuegos, D. Borin, S. Odenbach, J. E. Martin and M. T. Lopez-Lopez</i>	<b>SG19.</b> Dynamics of flexible fibers in complex viscous flows in pillar arrays. <i>Z. Li, C. Bielinski, B. Delmotte, A. Lindner and O. du Roure</i>	<b>BL19.</b> Biomicrofluidic analysis of hematological diseases by means of mathematical biomechanical models and statistical analysis. <i>A. Hernandez-Machado</i>	<b>GR4.</b> A high-pressure (250 MPa) high-temperature (1120°C) rheometer: measuring the viscosity of volatile rich magmas. <i>F. L. Hayward, R. A. Brooker, H. Mader, L. Breeze, C. Charles, A. Lindoo and G. Mwale</i>	<b>EM5.</b> Measurement of viscoelastic properties of a liquid using a rotating body subjected to oscillatory shear. <i>W. R. Hwang and H. J. Ahn</i>	<b>NF19.</b> Tensorial viscosity models for non-Newtonian fluids. <i>E. Cook, D. Hewitt and M. Davoodi</i>
12:20	<b>EF12.</b> Effect of interfacial nanoparticles on the coalescence process of model drop-in-matrix emulsions by rheo-optics and microfluidics. <i>A. Marotta, V. Preziosi, G. Tomaiuolo and G. Filippone</i>	<b>PF16.</b> Modelling the nonlinear shear rheology: from unentangled to entangled linear polymer melts. <i>M. Dalne, S. Costanzo, D. Vlassopoulos, D. Vlassopoulos, M. Rubinstein and E. van Ruymbeke</i>	<b>SV19.</b> Rheology and micro-structure of silica colloidal dispersions concentrated by drying: adsorbed, confined, free water and channels formation. <i>M. Pépin, M. Pépin, A. Davaille and C. Alba-Simionesco</i>	<b>SG20.</b> Simulations of sheared frictional particles – rheology, contact networks and fluctuations. <i>J. R. Melrose</i>	<b>BL20.</b> Development of active all-enzyme hydrogels from glucose oxidase. <i>H. Laurent, M. D. Hughes, D. J. Brockwell and L. Dougan</i>	<b>GR5.</b> The rheology of bubble suspensions up to the wet foam limit, with application to magma and lava. <i>C. Allgood, M. J. Drignon and E. W. Llewellyn</i>	<b>EM6.</b> Strategy to advance creep measurements of polyolefin melts. <i>G. M. Scheutz, S. Vervoort and E. Goedhart-Smet</i>	<b>NF20.</b> Comparison of Methodologies for the Application of the Onsager Variational Principle to Rheology. <i>K. S. Cho</i>
12:40	LUNCH Exhibition Hall							



	LT 1 (Level 7) Micro-rheology and Microfluidics Anke Lindner	LT 17 (Level 7) Polymeric Fluids Peter Olmsted	LT 6 (Level 8) Industrial Rheology, Sust. & Addt. Manf. Claire McIlroy	LT 18 (Level 8) Suspensions and Granular Materials John Melrose	LT 23 (Level 8) Bio-rheology, Living & Active Matter Alexis Darras	LT 11 (Level 10) Geo-rheology Ceri Allgood	LT 19 (Level 10) Experimental Methods & New Rheo. Tech. Karl Hawkins	LT 24 (Level 10) Non-Newtonian Fluid Mech. & Flow Instbl. John Tsamopoulos
2:00	<b>MR14.</b> Exploring Microfluidic-Small Angle Neutron Scattering for Soft Matter Physics. <i>S. Sathish, T. Moragues, A. Shen and V. Lutz-Bueno</i>	<b>PF17.</b> Rheological characterisation of concentrated biopolymer systems. <i>A. Raja, P. K. Wiifert and S. J. Picken</i>	<b>IR5.</b> Rheological Optimisation of Battery Electrode Manufacturing. <i>C. D. Reynolds and C. D. Reynolds</i>	<b>SG21.</b> Influence of suspension rheology on dynamic wetting: Concentrated granular suspensions. <i>R. Azizmalayeri, P. Rostami, T. Witzmann, C. O. Klein, H. P. Patel and G. K. Auemhammer</i>	<b>BL21.</b> On the effect of the active stresses on the structural dynamics and hemodynamics in microvessels. <i>A. Marousis, K. Giannokostas, Y. Dimakopoulos and J. Tsamopoulos</i>	<b>GR6.</b> On the accumulation and release of bubbles in volcanic eruptions. <i>T. J. Appleford, P. Patel, O. Supponen and M. Jalaal</i>	<b>EM7.</b> Follow-Up of Rheological Properties Under Magnetic Hyperthermia Fast Sintering: Focus on the UHMWPE Explosion Upon Melting Question. <i>M. Salse, G. P. Baeza, J. Morthomas and O. Lame</i>	<b>NF21.</b> A Darcy-type law for yield-stress fluid flows through porous media. <i>E. Chaparian</i>
2:20	<b>MR15.</b> Multidirectional analysis of multiple particle tracking data for simultaneous velocimetry and microrheology. <i>M. C. Roffin, C. Xuanhong, K. M. Schultz and J. F. Gilchrist</i>	<b>PF18.</b> Carbon dots-based biopolymer composites: carbon dots synthesis, elaboration and study of composites with modulated properties. <i>E. Manso Castillo, V. Thévenet and A. Ponton</i>	<b>IR6.</b> Rheological, electrochemical and machine-learning based evaluation of carbon-based lithium ion battery anode slurry under in-line pipe flow conditions. <i>C. H. Ahn and K. H. Ahn</i>	<b>SG22.</b> Signature of structural memory in shear jammed dense suspension. <i>S. Barik, H. A. Vinutha and S. Majumdar</i>	<b>BL22.</b> Micro-rheological examination of insulin-secreting $\beta$ -cells in healthy and diabetic-like conditions and beyond. <i>L. Woolley, F. Christakopoulos, A. Brubidge and J. Vermant</i>	<b>GR7.</b> Rheology of dilute bubble suspensions in unsteady shear flows. <i>K. Ohie, Y. Tasaka and Y. Murai</i>	<b>EM8.</b> Exploring How Magnetorheological Cell Design Influences Measurement Accuracy in a Rotational Rheometer. <i>R. Rodrigues, F. J. Galindo-Rosales and L. Campo-Deaño</i>	<b>NF22.</b> Rising bubble through viscoplastic - Newtonian interface. <i>M. Zare, I. Frigaard and G. Lawrence</i>
2:40	<b>MR16.</b> Probing the Dynamic Viscoelasticity of the Cytoskeleton Using a Simple Microrheology and Microfluidic Approach. <i>A. Davidson, J. M. Girkin and A. Aufderhorst-Roberts</i>	<b>PF19.</b> Shear rheology of unentangled pom-pom polymers. <i>G. Ianniruberto, G. Marrucci, G. P. Baeza, V. Hirschberg and S. Costanzo</i>	<b>IR7.</b> Rheology as a tool to understand solid electrolyte formulation interactions and properties. <i>N. Ghazouani, G. Ovarlez, J. Jolly and Y. Medina Gonzalez</i>	<b>SG23.</b> Unravelling electrical and mechanical networks of electrically conductive suspensions. <i>D. S. Schmidt, S. Arora, S. Lago-Garrido, A. Núñez-Leyva and L. Gonzalez-Garcia</i>	<b>BL23.</b> Shear-force-controlled cancer spheroids deformation and cell migration into 3D collagen-hyaluronic hydrogel. <i>S. Metwally, J. Pabijan and M. Lekka</i>	<b>GR8.</b> Convective patterns in planetary interiors: a question of complex rheology. <i>A. Davaille</i>	<b>EM9.</b> Optical methods to study structure breakdown in smart materials. <i>J. Haeblerle, J. Läger and L. M. Völker-Pop</i>	<b>NF23.</b> Squeeze cementing: managing uncertainty in viscoplastic Hele-Shaw flows. <i>I. Frigaard, M. Izadi and E. Trudel</i>
3:00	<b>MR17.</b> Machine-learning-based measurement of relaxation time via particle ordering. <i>M. De Micco, G. D'Avino, M. M. Villone and P. L. Maffettone</i>	<b>PF20.</b> Computational Fluid Dynamics of Polymer Flow Induced Crystallisation using the polySTRAND model. <i>W. P. Grant, O. Harlen and D. J. Read</i>	<b>IR8.</b> Rheological behaviour of nanostructured h-BN water-based drilling fluids under HPHT conditions. <i>Y. Soares, N. Fernandes, L. Berghe, H. Ribeiro, M. F. Nacache and R. Andrade</i>	<b>SG24.</b> Extensional rheology of CNTs and cellulose nanofiber in wet spinning process. <i>G. M. Choi and H. S. Lee</i>	<b>BL24.</b> Microswimmer propulsion and interactions in thin films. <i>B. Zhang, G. Gompper and D. A. Fedosov</i>	<b>GR8 continues</b>	<b>EM10.</b> Introduction of New Rotational Mini-Rheometer for Scarce Sample. <i>S. Gottschalk, M. P. Lettinga, K. Dahlhoff and G. Natour</i>	<b>NF24.</b> Scalar mixing in viscoplastic fluids. <i>M. R. Daneshvar Garmroodi and I. Karimfazi</i>
3:20	COFFEE BREAK Exhibition Hall							
	Food Rheology Brent Murray	Polymeric Fluids Francesco Del Giudice	Industrial Rheology, Sust. & Addt. Manf. Esther Garcia-Tunon	Colloids and Glasses Michel Cloitre	Bio-rheology, Living & Active Matter Dmitry Fedosov	Geo-rheology Sandra Piazzolo	Experimental Methods & New Rheo. Tech. Christian Clasen	Non-Newtonian Fluid Mech. & Flow Instbl Marco Ellero
3:50	<b>FR1.</b> Origins of polysaccharide conformation and viscoelasticity in miscible heterogeneous solvent. <i>G. E. Yakubov and P. Kumar Borah</i>	<b>PF21.</b> Rheology of Topologically Active DNA. <i>D. Michieletto and Y. A. Gutierrez Fosado</i>	<b>IR9.</b> Linking Rheology and Printability in Direct Ink Writing (DIW): advances and opportunities. <i>R. Agrawal and G.-T. Esther</i>	<b>CG14.</b> Central and Non-Central Interaction Forces in Rough Particle Colloidal Gels. <i>F. J. Müller, S. N. Ramakrishna, I. Lucio and J. Vermant</i>	<b>BL25.</b> T1 rearrangements in epithelial tissue are regulated by the balance of viscoelastic relaxation and cell-cell friction. <i>J. Étienne</i>	<b>GR9.</b> Fluid rheology controls coupled solid-fluid processes in flux-driven fractures: Applications to magma transport in dykes. <i>C. M. Chalk and J. L. Kavanagh</i>	<b>EM11.</b> Distinguishing Thixotropy, Plasticity and Viscoelasticity in Complex Fluids Using Parallel Superposition Gaborrheometry. <i>J. D. Rathinaraj, R. More, M. Graedel and G. H. McKinley</i>	<b>NF25.</b> Interplay of surfactant and viscoplasticity in the Rayleigh-Plateau instability of a film coating a tube. <i>J. Shemilt, A. Horsley, O. Jensen, A. Thompson and C. Whitfield</i>
4:10	<b>FR1 continues</b>	<b>PF22.</b> Predicting elongational rheology of polystyrene pom-poms from molecular topology and shear rheology. <i>V. Hirschberg, M. G. Schussmann and M. Wilhelm</i>	<b>IR10.</b> Printing by yield stress fluid shaping. <i>P. Coussot and A. Geffraut</i>	<b>CG15.</b> Shear induced tuning and crystallization of colloidal gels. <i>G. Petekidis, V. Chrisoulaki, E. Vereroudakis and E. Moghimi</i>	<b>BL26.</b> Controlled mixing patterns in the small intestine lumen via coordination of active finger-like microstructures. <i>C. de Loubens, R. Vernekar, D. Yanez Martin and S. Tanguy</i>	<b>GR10.</b> Effects of rheology on flow within experimental volcanic plumbing systems. <i>K. Williams, J. L. Kavanagh and C. M. Chalk</i>	<b>EM12.</b> A novel double exponential chirp signal for high noise environments. <i>J. L. Waeterloos, G. H. McKinley and C. Clasen</i>	<b>NF26.</b> The effect of fluid elasticity and plasticity on the flow within wavy channels. <i>M. S. Abdelgawad, S. J. Haward, A. Shen and M. E. Rosti</i>
4:30	<b>FR2.</b> Tribology & interfacial rheology: Explaining protein-stabilised oil droplet lubrication by non-linear interfacial rheology (LAOD). <i>J. Yang, L. Ji, L. Sagis and E. Scholten</i>	<b>PF23.</b> Viscoelastic properties of model linear polymers under elongational flow. <i>E. van Ruymbeke, A. André and C. Hannecart</i>	<b>IR11.</b> 3D printing of electrofluids and its advantage in soft sensor fabrication. <i>N. Hautz and L. González-García</i>	<b>CG16.</b> Affine hierarchical compaction of drying beads of colloidal gel. <i>M. Milani, L. Cipolletti, L. Ramos and C. Ligoure</i>	<b>BL27.</b> Interfacial rheology of lung surfactant: experiments and modelling to explore disruption of function by aerosolised compounds. <i>H. Barlow, S. Sengupta, M. T. Baltazar and J. Sørli</i>	<b>GR11.</b> Understanding how complex rheologies in the magmatic system affect volcanic uplift episodes observed by InSAR and GNSS. <i>C. Novoa Lizama, D. Remy, A. Hooper and J. C. Baez</i>	<b>EM13.</b> Optimally Windowed Logistic Chirp (OWL-Chirp) Rheometry. <i>D. J. Curtis, M. Das and G. H. McKinley</i>	<b>NF27.</b> Interplay between complex fluid rheology and wall compliance affects the hydrodynamic resistance of deformable configurations. <i>E. Boyko</i>
4:50	<b>FR3.</b> Crystallization of the disperse phase influences the oral tribology of O/W-emulsions. <i>P. Schochat, L. Lepp, H. P. Karbstein and N. Leister</i>	<b>PF24.</b> Relations between architecture and rheology of linear and branched polypropylene melts. <i>A. Salerno, A. Salerno, N. Grizzuti and S. Costanzo</i>	<b>IR12.</b> Particle-induced Instabilities in Uniaxially Elongated Thermoplastic Polymer Blends. <i>M. Neukötter, S. Jesinghausen and H.-J. Schmid</i>	<b>CG17.</b> Hydrodynamic lubrication in colloidal gels. <i>K. W. Torre and J. de Graaf</i>	<b>BL28.</b> Interfacial rheology of DPPC-Cholesterol monolayers at air-water interface. <i>P. Bourazanis, I. Buttinoni and L. Alvarez</i>	<b>GR12.</b> Viscous and brittle permeability development in three-phase rhyolite magma. <i>T. Witcher, R. Champallier, L. Arbaret, A. R. L. Kushnir, M. J. Heap, S. Burchardt</i>	<b>EM14.</b> Effect of Hencky strain on extensional rheology determined from entrance pressure drop measurements. <i>M. Zatloukal and J. Juracka</i>	<b>NF28.</b> Complex fluid flows in grooved superhydrophobic channels. <i>H. Rahmani and S. M. Taghavi</i>
5:10	<b>FR4.</b> Real-time rheology of soft matter-Based Food. <i>S. Russo Spena and N. Grizzuti</i>	<b>PF25.</b> Segmental dynamics of poly(ethylene oxide) rings in melts slightly contaminated by linear counterparts. <i>D. G. Tsalikis, H. I. Papargyriou, and V. G. Mavrantzas</i>	<b>IR13.</b> Viscoelasticity of vinylous urethane vitrimer particles and selective laser sintering additive manufacturing. <i>L. Ballester-Bayarri, N. Ballard, M. Fernández and R. Aguirresarobe</i>	<b>CG18.</b> Perfume-induced phase transitions and rheological properties of a cationic vesicle dispersion for sustainable fabric softeners. <i>M. Walteros Leon, M. P. Lettinga and C. Clasen</i>	<b>BL29.</b> Active nematic-induced dynamics of passive polymers. <i>Z. Valei and T. N. Shendruk</i>	<b>GR13.</b> Thermorheological lava flows: a model study. <i>D. J. Fairhurst, W. C. Poon, R. O'Neill, P. Sandquist, E. W. Llewellyn and C. Allgood</i>	<b>EM15.</b> Determination of uniaxial and planar extensional viscosity using a Rosand high-pressure capillary rheometer. <i>L. Szántó and M. Zatloukal</i>	<b>NF29.</b> Flow of shear-banding viscoelastic fluids over long cavities. <i>F. Hillebrand, S. Varchanis, S. Varchanis, C. Hopkins, S. J. Haward and A. Shen</i>
5:30	END							
7:00	CONFERENCE DINNER Royal Armouries: drinks reception at 7pm, call to dinner at 7:45pm							



8:20 ARRIVAL COFFEE Exhibition Hall								
	LT 1 (Level 7) Emulsions, Foams & Interfacial Rheology <b>Simon Cox</b>	LT 17 (Level 7) Polymeric Fluids <b>Pavlos Stephanou</b>	LT 6 (Level 8) Food Rheology <b>Peter Fischer</b>	LT 18 (Level 8) Suspensions and Granular Materials <b>Erin Koos</b>	LT 23 (Level 8) Industrial Rheology, Sust. & Addt. Manf. <b>Sylvie Vervoort</b>	LT 11 (Level 10) Soft Solids & Viscoplastic Fluids <b>Ian Wilson</b>	LT 19 (Level 10) Experimental Methods & New Rheo. Tech. <b>Manlio Tassieri</b>	LT 24 (Level 10) Non-Newtonian Fluid Mech. & Flow Instbl. & Flow Instbl. <b>Tim Phillips</b>
8:50	<b>EF13.</b> Flowing foams and viscose veins. <a href="#">S. Cox</a>	<b>PF26.</b> Mesoscopic simulations of the linear viscoelasticity of semidilute unentangled wormlike micellar solutions. <a href="#">A. Kumar</a> , <a href="#">P. Sunthar</a> and <a href="#">J. R. Prakash</a>	<b>FR5.</b> Recent advances in the engineering of concentrated soft microgel dispersions for food applications. <a href="#">D. Gunes</a> , <a href="#">G. D'Oria</a> , <a href="#">C. Hartmann</a> , <a href="#">H.-J. Limbach</a> and <a href="#">L. Ahme</a>	<b>SG25.</b> Rheological characterization of primary sewage sludge for ecological and economic exploitation. <a href="#">A. CHITANU</a> , <a href="#">L. JOS-SIC</a> , <a href="#">A. MAGNIN</a> , <a href="#">A. PAUSS</a> , <a href="#">T. RIBEIRO</a> and <a href="#">M. OLIVEIRA</a>	<b>IR14.</b> Tuneable conductive foamed microstrands through additive manufacturing. <a href="#">D. Tammara</a> , <a href="#">D. Elisabetta</a> and <a href="#">P. L. Maffettone</a>	<b>SV20.</b> Highly deformable magnetic semi-interpenetrating hydrogels based on acrylamide and natural biopolymers. <a href="#">A. Leon-Cecilia</a> , <a href="#">Gila-Vilchez</a> , <a href="#">Vazquez-Perez</a> , <a href="#">Capitan-Valley</a> , <a href="#">Martos</a> , <a href="#">Fernandez-Ramos</a> , <a href="#">Álvarez de Cienfuegos</a> , <a href="#">Medina-Castillo</a> , <a href="#">Lopez-Lopez</a>	<b>EM16.</b> Simple way to measure extensional stress growth coefficient up to a Hencky Strain of $e=8$ , introducing 2D-UXF method. <a href="#">M. Khabazian Esfahani</a> , <a href="#">M. G. Schussmann</a> , <a href="#">J. A. Rodríguez Agudo</a> , <a href="#">J. Haerberle</a> , <a href="#">J. Laeuger</a> , <a href="#">C. Georgantopoulos</a> and <a href="#">M. Wilhelm</a>	<b>NF30.</b> Similarity theory for turbulent planar jets of viscoelastic fluids. <a href="#">M. C. Guimarães</a> , <a href="#">F. T. Pinho</a> and <a href="#">C. B. da Silva</a>
9:10	<b>EF14.</b> Understanding the foamability and mechanical properties of foamed polypropylene blends by shear and extensional rheology. <a href="#">E. Laguna-Gutiérrez</a> , <a href="#">M. Rodríguez-Pérez</a> and <a href="#">P. Moldenaers</a>	<b>PF27.</b> Exploring drag reduction for polymers with varying molecular weight distribution. <a href="#">L. Brandfellner</a> , <a href="#">L. Brandfellner</a> , <a href="#">A. Bismarck</a> , <a href="#">A. Bismarck</a> and <a href="#">H. W. Müller</a>	<b>FR6.</b> Linking the yield stress functionality of polyglycerol polyricinoleate in a highly filled suspension to its molecular properties. <a href="#">R. Price</a> , <a href="#">D. A. Gray</a> , <a href="#">N. Watson</a> , <a href="#">J. Vieira</a> and <a href="#">B. Wolf</a>	<b>SG26.</b> Numerical simulations of the sedimentation of soft particles in confined liquids. <a href="#">M. M. Villone</a> and <a href="#">P. L. Maffettone</a>	<b>IR15.</b> New advances in the rheological characterization of 3D printing controlled in-situ microfibrillation of PP/PET composites. <a href="#">I. Calafel</a> , <a href="#">M. Fernández</a> and <a href="#">R. Aguirresarobe</a>	<b>SV21.</b> Exploring the complex dynamics of buoyant jets: from Newtonian to viscoplastic fluids. <a href="#">H. Hassanzadeh</a> and <a href="#">S. M. Taghavi</a>	<b>EM17.</b> In-Situ Alignment Measurements during Extensional Flow Using a CaBER-SANS Sample Environment. <a href="#">M. A. Wade</a> , <a href="#">A. Radulescu</a> , <a href="#">C. Clasen</a> and <a href="#">M. P. Lettinga</a>	<b>NF31.</b> Exploring transitional pathway in von Karman swirling flow of polymer solutions: from laminar to elastic turbulence. <a href="#">X. Yang</a> , <a href="#">D. Marin</a> , <a href="#">C. Py</a> , <a href="#">A. Lindner</a> and <a href="#">S. Lerouge</a>
9:30	<b>EF15.</b> Elastoviscoplastic interfaces and their relevance for the stability of multiphase materials. <a href="#">A. Alicke</a> and <a href="#">J. Vermant</a>	<b>PF28.</b> A possible route to measure meaningful polymer drag reduction in Taylor Couette flow. <a href="#">H. W. Müller</a> , <a href="#">L. Brandfellner</a> , <a href="#">L. Brandfellner</a> , <a href="#">A. Bismarck</a> and <a href="#">A. Bismarck</a>	<b>FR7.</b> Bolus rheology of texture-modified food for swallowing disorder management. <a href="#">M. Stading</a> , <a href="#">A. Miljkovic</a> , <a href="#">J. Andersson</a> and <a href="#">K. Matsuo</a>	<b>SG27.</b> Unravelling the influence of alternated oscillatory and continuous shear on particle alignment in viscoelastic liquids. <a href="#">S. Gassenmeier</a> , <a href="#">C. De Graaf</a> , <a href="#">A. Vananroye</a> , <a href="#">R. Cardinaels</a> , <a href="#">E. Koos</a> and <a href="#">D. Gunes</a>	<b>IR16.</b> Rheological investigation and modeling of healing properties during extrusion-based 3D printing of poly(lactic-acid). <a href="#">K. Lamnawar</a> , <a href="#">J. Li</a> , <a href="#">X. Lacambra</a> and <a href="#">A. Maazouz</a>	<b>SV22.</b> Viscoplastic flows over topographies: an experimental – numerical cross-comparison. <a href="#">C. Ginot</a> , <a href="#">G. Chambon</a> , <a href="#">M. Wallon</a> , <a href="#">P. Vignaux</a> and <a href="#">P. Philippe</a>	<b>EM18.</b> Exploring the extremes of inkjet rheology and jetting performance in industrial printing. <a href="#">T. R. Tuladhar</a>	<b>NF32.</b> Drag reduction of superhydrophobic surfaces with shear-thinning fluids. <a href="#">L. Zhang</a> , <a href="#">C. R. Crick</a> , <a href="#">H. Ng</a> and <a href="#">R. J. Poole</a>
9:50	<b>EF16.</b> Design and production of ultrastable micrometer-sized foams. <a href="#">M. Rodríguez Hakim</a> , <a href="#">L. Oblak</a> and <a href="#">J. Vermant</a>	<b>PF29.</b> Biopolymer/ionic liquid networks controlled by water. <a href="#">R. M. Yunus</a> , <a href="#">M. Koch</a> , <a href="#">P. Dieudonné-George</a> , <a href="#">D. Truzzolillo</a> , <a href="#">R. H. Colby</a> and <a href="#">D. Parisi</a>	<b>FR8.</b> Rheo-mechanics of mixtures of K-Carrageenan and other polysaccharides. A critical study on potential gelatin alternatives. <a href="#">S. Russo Spina</a> , <a href="#">R. Pasquino</a> and <a href="#">N. Grizzuti</a>	<b>SG28.</b> Layer formation in magnetorheological fluids. <a href="#">J. R. Morillas</a> , <a href="#">Ó. Martínez-Cano</a> , <a href="#">J. F. Morris</a> and <a href="#">J. de Vicente</a>	<b>IR17.</b> Rheo-kinetic study of PET chain extension. <a href="#">I. Cusano</a> , <a href="#">S. Costanzo</a> , <a href="#">M. Aurilia</a> and <a href="#">N. Grizzuti</a>	<b>SV23.</b> Non-axisymmetric patterns in floating viscoplastic films. <a href="#">N. J. Balmforth</a> and <a href="#">T. V. Ball</a>	<b>EM19.</b> Preliminary results from ROJER-X, an orthogonal imaging extension of the Rayleigh-Ohnesorge Jet Extensional Rheometry (ROJER) technique. <a href="#">T. Threlfall-Holmes</a> , <a href="#">N. Kapur</a> , <a href="#">D. Vadillo</a> , <a href="#">P. Threlfall-Holmes</a>	<b>NF33.</b> Large Scale Direct Numerical Simulation of Turbulent Drag Reduction in Isotropic and Channel Flows. <a href="#">X.-F. YUAN</a>
10:10	<b>EF17.</b> RHEOLOGY OF A PARTICLE-LADEN SOAP FILM. <a href="#">J. Lallieu</a> , <a href="#">A. Seguin</a> and <a href="#">G. Gauthier</a>	<b>PF30.</b> Acid-induced gelation of carboxymethylcellulose solutions. <a href="#">G. Legrand</a> , <a href="#">G. P. Baeza</a> , <a href="#">M. Peyla</a> , <a href="#">L. Porcar</a> , <a href="#">C. Fernandez-de-Alba</a> , <a href="#">S. Manneville</a> and <a href="#">T. Divoux</a>	<b>FR9.</b> To which extent can food texture perception be explained in terms of food rheological and tribological properties? <a href="#">M. Ramaoli</a> , <a href="#">Y. Bugarin-Castillo</a> , <a href="#">A. Avila-Sierra</a> , <a href="#">A. Saint-Eve</a> , <a href="#">A. Lavoisier</a> , <a href="#">V. Mathieu</a>	<b>SG29.</b> Study the concentration of nanofillers on curing behavior of silicone elastomer. <a href="#">P. Wang</a> , <a href="#">E. F. Martins</a> and <a href="#">D. W. Auhl</a>	<b>IR18.</b> Vitrimers as a potential solution to improve the viscoelastic and mechanical properties of recycled polymers. <a href="#">A. T. Boborodea</a> , <a href="#">E. van Ruymbeke</a> , <a href="#">R. Nicolay</a> , <a href="#">A. Guérinot</a> and <a href="#">I. Göde</a>	<b>SV24.</b> Formulation of Yield-Stress Fluids for Direct Ink Writing. <a href="#">A. Mattei</a> , <a href="#">J.-N. Tourvieille</a> and <a href="#">J. Leng</a>	<b>EM19 continues</b>	<b>NF34.</b> Large scale structures in a drag-reduced turbulent pipe flow with surfactant additives. <a href="#">H. Ng</a> and <a href="#">R. J. Poole</a>
10:30 COFFEE BREAK Exhibition Hall								
	Emulsions, Foams & Interfacial Rheology <b>Mariana Rodriguez-Hakim</b>	Polymeric Fluids <b>Daniele Parisi</b>	Food Rheology <b>Mats Stading</b>	Suspensions and Granular Materials <b>Olivier Pouliquen</b>	Bio-rheology, Living & Active Matter <b>Laura Casanellas</b>	Soft Solids & Viscoplastic Fluids <b>Mazi Jalaal</b>	Experimental Methods & New Rheo. Tech. <b>Dan Curtis</b>	Non-Newtonian Fluid Mech. & Flow Instbl. <b>Helen Wilson</b>
11:00	<b>EF18.</b> Effects of Surface-Active Agents on the Interface Dynamics of an Oil Drop in Water. <a href="#">D. Papavassiliou</a> , <a href="#">S. Razavi</a> and <a href="#">T. X. Nguyen</a>	<b>PF31.</b> Rheological Behavior of Amin-Functionalized Liquid Polybutadiene and Butadiene-Styrene Copolymer. <a href="#">A. Malmir</a> , <a href="#">S. Ataie</a> , <a href="#">S. S. Scott</a> , <a href="#">L. L. Schafer</a> and <a href="#">S. G. Hatzikiriakos</a>	<b>FR10.</b> Structural and contact-driven ageing in enzymatic casein gels. <a href="#">J. Bauland</a> , <a href="#">T. Divoux</a> , <a href="#">R. A. Koduvayur</a> , <a href="#">C. J. Garvey</a> and <a href="#">T. Gibaud</a>	<b>SG30.</b> Particle Redistribution in Complex Flow of Complex Fluids. <a href="#">M. Davoodi</a> and <a href="#">A. Clarke</a>	<b>BL30.</b> Evaluation of disposable PDMS rheometer geometries for growth and bulk rheology measurements on P. fluorescens biofilms. <a href="#">V. Engelborghs</a> , <a href="#">J. Vermant</a> , <a href="#">S. Geisel</a> and <a href="#">C. Clasen</a>	<b>SV25.</b> Merging filaments of elastoviscoplastic fluids. <a href="#">H. L. França</a> and <a href="#">M. Jalaal</a>	<b>EM20.</b> Attempts to mitigate edge fracture instability in sheared polymers. <a href="#">L. Benke</a> , <a href="#">M. Antonis</a> , and <a href="#">D. Vlassopoulos</a>	<b>NF35.</b> Hammering at the entropy: A GENERIC guided approach to learning rheological constitutive equations using PINNs. <a href="#">D. Nieto Simavilla</a> , <a href="#">A. Bofanti</a> , <a href="#">I. Garcia de Beristain</a> , <a href="#">P. Español</a> and <a href="#">M. Ellero</a>
11:20	<b>EF19.</b> Pore-scale visualization of emulsion flow in porous media. <a href="#">C. de Amorim</a> , <a href="#">A. C. Pessoa</a> , <a href="#">R. V. Ponce</a> and <a href="#">M. S. Carvalho</a>	<b>PF32.</b> Viscoelastic properties of metallo-supramolecular networks: relationship between stickers dynamics and terminal relaxation. <a href="#">P. de Wergifosse</a> , <a href="#">M. Dalne</a> , <a href="#">C.-A. Fustin</a> and <a href="#">E. van Ruymbeke</a>	<b>FR11.</b> Viscoelastic properties of lactoferrin/ $\beta$ -lactoglobulin coacervates studied by rheology and microrheology. <a href="#">G. BEN MESSAOUD</a> , <a href="#">R. SOUSSI HACHFI</a> , <a href="#">F. ROUSSEAU</a> , <a href="#">P. Hamon</a> , <a href="#">M. H. Famelart</a> and <a href="#">S. BOUHALLAB</a>	<b>SG31.</b> On the linear viscoelastic behaviour of semidilute polydisperse bubble suspensions in Newtonian media. <a href="#">S. Mitrou</a> , <a href="#">S. Migliozi</a> , <a href="#">L. Mazzei</a> and <a href="#">P. Angeli</a>	<b>BL31.</b> Control of bacteria turbulence through surfaces. <a href="#">B. Perez-Estay</a> , <a href="#">A. Lindner</a> , <a href="#">E. Clement</a> , <a href="#">A. Morozov</a> , <a href="#">W. C. Poon</a> , <a href="#">V. Martinez</a> , <a href="#">J. Art</a> and <a href="#">C. Douarche</a>	<b>SV26.</b> Spreading of yield stress fluids under vertical vibration. <a href="#">A. Woodbridge</a> , <a href="#">C. Pereira da Fonte</a> and <a href="#">A. Juel</a>	<b>EM21.</b> Effective mechanical system approach for effects of inertia on the viscoelastic properties. <a href="#">X. Gao</a> and <a href="#">W. R. Hwang</a>	<b>NF36.</b> A mesh-free framework for high-order simulations of viscoelastic flows in complex geometries. <a href="#">J. King</a> and <a href="#">S. J. Lind</a>
11:40	<b>EF20.</b> Stabilization of O/W emulsions with sodium alginate and Pluronic. <a href="#">P. R. Avallone</a> , <a href="#">N. Russo</a> , <a href="#">R. Pasquino</a> and <a href="#">N. Grizzuti</a>	<b>PF33.</b> Highly stretchable room-temperature self-healing Vitrimers. <a href="#">J. Zhao</a> , <a href="#">R. Mandle</a> , <a href="#">N. Warren</a> , <a href="#">P. Hine</a> , <a href="#">A. Wilson</a> and <a href="#">J. Mattsson</a>	<b>FR12.</b> Thermo-rheological properties of a gelatin analogue mixed gel of Low acyl gellan gum and tamarind seed xyloglucan as a dysphagia meal. <a href="#">T. Makmoon</a> , <a href="#">T. Mills</a> and <a href="#">B. Wolf</a>	<b>SG32.</b> Effects of salinity on flows of dense colloidal suspensions. <a href="#">M. Lagoin</a> , <a href="#">R. Fulcrand</a> , <a href="#">A. Piednoir</a> and <a href="#">A. Bérut</a>	<b>BL32.</b> Anomalous bacterial transport in confined geometries. <a href="#">P. Zhang</a> , <a href="#">M. Ghodrat</a> , <a href="#">I. Pagonabarraga</a> , <a href="#">E. Clement</a> and <a href="#">A. Lindner</a>	<b>SV27.</b> Interaction of two viscous drops sedimenting in elastoviscoplastic materials. <a href="#">G. Esposito</a> , <a href="#">Y. Dimakopoulos</a> and <a href="#">J. Tsamopoulos</a>	<b>EM22.</b> Application of Numerical Differentiation to Creep Ringing. <a href="#">J. Choi</a> and <a href="#">K. S. Cho</a>	<b>NF37.</b> A Conservative Level-Set Method for Multiphase Viscoelastic Flows. <a href="#">W. Doherty</a> , <a href="#">T. N. Phillips</a> and <a href="#">Z. Xie</a>



## Friday, 12 April 2024, Afternoon

	<b>LT 1 (Level 7)</b> Emulsions, Foams & Interfacial Rheology <b>Mariana Rodriguez-Hakim</b>	<b>LT 17 (Level 7)</b> Polymeric Fluids <b>Daniele Parisi</b>	<b>LT 6 (Level 8)</b> Food Rheology <b>Mats Stading</b>	<b>LT 18 (Level 8)</b> Suspensions and Granular Materials <b>Olivier Pouliquen</b>	<b>LT 23 (Level 8)</b> Bio-rheology, Living & Active Matter <b>Laura Casanellas</b>	<b>LT 11 (Level 10)</b> Soft Solids & Viscoplastic Fluids <b>Mazi Jalaal</b>	<b>LT 19 (Level 10)</b> Experimental Methods & New Rheo. Tech. <b>Dan Curtis</b>	<b>LT 24 (Level 10)</b> Non-Newtonian Fluid Mech. & Flow Instbl. <b>Helen Wilson</b>
12:00	<b>EF21.</b> Interfacial rheology effects in crude oil production. <i>E. P. Marín Castaño, C. L. De Souza Gonçalves, P. R. Vargas, E. J. Siqueira, O. J. Karnitz, M. C. Khalil de Oliveira, M. F. Naccache and P. R. de Souza Mendes</i>	<b>PF34.</b> Frequency-hydrophobicity superposition in associative polymers with comb-like architecture. <i>M. Cloitre and A. Chaub</i>	<b>FR13.</b> Characterisation of chemo-mechanical properties of starch gels. <i>Z. Liao, A. Makrypidis, A. M. Lett, A. Dagbasi, G. Frost, M. M. Papatathanasiou and M. N. Charalambides</i>	<b>SG33.</b> Fiber orientation-induced strain hardening in uniaxial extensional flow of fiber-filled polymer composites. <i>T. R. Egelmeers, R. Cardinaels, P. D. Anderson and N. O. Jaensson</i>	<b>BL33.</b> A hybrid computational approach for swimming in shear-thinning and viscoelastic fluids. <i>C. V. Neal, R. N. Bearon and R. N. Bearon</i>	<b>SV28.</b> Stability of bubbles in a yield-stress fluid: from individual to multiple bubbles. <i>M. Daneshi, E. Chaparian and I. Frigaard</i>	<b>EM23.</b> Development of rheometry based on ultrasonic velocity profiling. <i>Y. Tasaka, K. Ohie and T. Yoshida</i>	<b>NF38.</b> Computational rheology in hierarchical grids: the HiGFlow software. <i>H. A. Castillo-Sánchez and A. Castelo</i>
12:20	<b>EF22.</b> Exploring the mechanisms of emulsion separation via millimetric droplet coalescence. <i>A. Zlobin, E. Santanach-Carreras, L. Talini, F. Lequeux and P. Panizza</i>	<b>PF35.</b> Resolving the molecular mechanisms controlling the rheology in a supramolecular telechelic polymer. <i>J. Mattsson, G. Cui, S. Connell, M. Reynolds, V. Boudara, D. J. Read and A. Wilson</i>	<b>FR14.</b> Clarifying the deformation behaviour of meat and meat analogues. <i>E. I. Wilhelm, J. A. Rodríguez Agudo, D. O. Schmelzeisen and A. M. Wagemans</i>	<b>SG34.</b> Coupling slip and thixotropy to model the transient rheological behaviour of kaolinite suspensions. <i>J. H. Piette, X. Jia and S. G. Hatzikiriakos</i>	<b>BL34.</b> Enhanced upstream swimming of bacteria in non-Newtonian fluids. <i>A. J. Mathijssen</i>	<b>SV29.</b> Dynamics of bubbles evading stasis in elastic yield stress materials. <i>A. Kordalis, Y. Dimakopoulos and J. Tsamopoulos</i>	<b>EM24.</b> Coupling rheology, DMA, and Raman spectroscopy for the characterization of smart and functional materials. <i>J. A. Rodríguez Agudo, A. Posada Murcia, J. Haeberle, C. Giehl, F. Cerbe, D. Fauser, H. Steeb, G. Arnold and J. Läger</i>	<b>NF39.</b> Smoothed-particle hydrodynamics simulations of integral multi-mode and fractional viscoelastic models. <i>L. Santelli, A. Vázquez-Quesada and M. Ellero</i>
12:40	<b>EF23.</b> Air-water interface properties and foam stabilization by mildly extracted lentil protein. <i>P. Shen, J. Peng, L. Sagis and J. Landman</i>	<b>PF36.</b> Diffusion Mechanisms in Star-Shaped Associating Polymers: Insights from Molecular Dynamics and Monte Carlo Simulations. <i>J. Oller and J. Ramirez</i>	<b>FR15.</b> Challenges in obtaining the steady-state shear viscosity of protein-water mixtures under extrusion-like conditions. <i>F. Ellwanger, H. P. Karbstein and A. M. Emin</i>	<b>SG35.</b> Influence of controlled aging on the onset of desiccation cracks in aqueous clay suspensions. <i>V. R. S. Parmar and R. Bandyopadhyay</i>	<b>BL35.</b> Active Fluidification of Entangled Polymers by Loop Extrusion. <i>F. Conforto, Y. A. Gutierrez Fosado and D. Michieletto</i>	<b>SV30.</b> Flow cessation during the yielding transition of soft jammed materials. <i>H. A. Vinutha and E. Del Gado</i>	<b>EM25.</b> Rheology of water-based methylcellulose systems: a data-driven approach with Gaussian Process Regression. <i>L. Y. Miranda-Valdez, T. Mäkinen, J. Koivisto and M. J. Alava</i>	<b>NF40.</b> Microstructural Smoothed Particle Hydrodynamics Model and Simulations of Discontinuous Shear-Thickening Fluids. <i>P. Angerman, S. Bjornar, S. S. Prasanna Kumar, R. Seto and M. Ellero</i>
1:00	LUNCH Exhibition Hall							
2:20	<b>PL3.</b> Protorheology. <i>R. H. Ewoldt</i> Conference Auditorium							
3:20	CLOSING REMARKS Conference Auditorium							
3:30	END							

## Notes

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- PO1.** Brownian dynamics simulation of colloidal film in drying process. *Y. Kim, J. Jeong and Y. K. Lee*
- PO2.** Structure and dynamics of a glass-forming liquid with pinning disorder. *S. Suvama and M. Priya*
- PO3.** Alteration of architecture and mechanics of monomeric folded protein hydrogels through seeding during network formation. *K. R. Cook, L. Dougan, D. Head, M. D. Hughes, S. Cawood, L. Willis, N. Mahmoudi and D. J. Brockwell*
- PO4.** Attractive carbon black dispersions: structural and mechanical responses to shear. *J. Bauland, L.-V. Bouthier, A. Poulesquen and T. Gibaud*
- PO6.** High pressure effects in the sol-gel transition of gelatin dispersions. *N. A. Burger, N. A. Burger, G. Meier, D. Vlassopoulos, D. Vlassopoulos and B. Loppinet*
- PO7.** Rheology of organoclay dispersion gels formed upon flow cessation. *N. A. Burger, N. A. Burger, B. Loppinet, A. Clarke, G. Petekidis and G. Petekidis*
- PO8.** Yielding, Shear Banding, and Thixotropic Behaviour of a Cellulose Nanocrystal (CNC) Gel. *J. H. Piette, X. Jia and S. G. Hatzikiriakos*
- PO9.** Yielding mechanisms in Mg(OH)<sub>2</sub> suspensions with spherical nanoparticle additives. *O. Pickup, M. Barnes, A. Lockwood, T. Hunter and D. Harbottle*
- PO10.** Rheology of graphene oxide suspensions in xanthan gum. *J. C. C. Rodriguez, L. R. Moraes, R. Andrade, H. Ribeiro and M. F. Naccache*
- PO11.** A double rigidity transition rules the fate of drying colloidal drops. *M. Milani, C. Ligoure, L. Cipolletti and L. Ramos*
- PO12.** Effect of carboxymethyl cellulose and temperature on rheological properties of anode slurries for lithium-ion batteries. *S. C. Lee, J. S. Lee and S. J. Lee*
- PO13.** Self-supported MOF/cellulose-nanocrystals materials designed from ultrafiltration. *L. Metilli, H. Ugo, W. Chèvremont, C. Picard and F. Pignon*
- PO14.** Multi-scale study of chiral self-assembly of cellulose nanocrystals during ultrafiltration. *S. Mandin, L. Metilli, N. Hengl, B. Jean and F. Pignon*
- PO15.** Multiply scattered sound and strain in a granular suspension. *L. Awada*
- PO16.** Rheology of surface flow of granular materials over erodible heaps: DEM simulations. *N. S. Ray and D. V. Khakhar*
- PO17.** Investigating Granular Flow Dynamics in Wedge-Shaped Hoppers: A Discrete Element Method Approach. *A. F. Momin and D. V. Khakhar*
- PO18.** Simulation of Fluid-Particle suspension using the Immersed Boundary Method. *A. B. V. Memon and D. V. Khakhar*
- PO19.** Origin of two distinct stress relaxation regimes in shear jammed dense suspensions. *S. Barik and S. Majumdar*
- PO20.** Time- and space-resolved stress heterogeneities in shear thickening suspensions. *E. Del Gado, G. J. Donley, A. Goyal and N. Marty*
- PO23.** Dynamics of semi-flexible and breakable fibers under Poiseuille flow. *J. S. Myung, I. Kim, M. Byeon and W. J. Choi*
- PO25.** Complex viscoelastic behavior of aluminum-bridged oleic acid compounds. *G. Huang, T. Lei, Q. Gu and X. Wang*
- PO26.** Equation for rheological characterization of temperature-responsive polymers based on gelatin and poly(N-isopropylacrylamide). *T. Kopac*
- PO27.** Impact of the Host Polymer Linear Viscoelastic Properties on the Magnetic Hyperthermia of Polypropylene/Fe<sub>3</sub>O<sub>4</sub> nanocomposites. *L. Ea, V. Truchot, G. Coativy and G. P. Baeza*
- PO28.** Interplay of Polymer Matrix Molecular Weight and Functionality in Polymer Vitrimers. *H. Wang, C.-A. Fustin and E. van Ruymbeke*
- PO29.** Vitrimers as additive to improve the dynamics and crystallization process of degraded semi-crystalline polyolefins. *A. Sapouna, R. Nicolay, N. van Zee, G. Floudas and E. van Ruymbeke*
- PO30.** Evaluating the dynamics of polyolefin vitrimers. *A. Karimi, H. Sun, N. J. Van Zee, R. Nicolay, S. Ghiassinejad and E. van Ruymbeke*
- PO31.** Correlation between relaxation behavior and transesterification catalyst structure in epoxy vitrimers. *M. Staropoli, W. Liu, M. Celina, S. Westermann and D. Schmidt*
- PO32.** Using machine learning to deduce molecular weight distribution from rheology. *R. Elliott, D. J. Read, L. Cuttillo and J. Mattsson*
- PO33.** Non-linear time-dependent behavior of amorphous polymers: experimental and theoretical approach. *L. Slemenik Perse and A. Oseli*
- PO34.** Scaling of the Linear Viscoelasticity of Entangled Polymer Solutions. *H. Lee, H. J. Ahn, J. H. Lee, W. R. Hwang and K. S. Cho*
- PO35.** Linear and non-linear rheology of blends of linear and pom-pom molecules: a molecular tube model. *B. Blottière*
- PO36.** Effect of a new multibranch polymer topology on melt rheological and foaming properties. *A. S. Mollenkopf, V. Hirschberg and M. Wilhelm*
- PO37.** Rheological properties of polystyrene blends comprising rings and matrices of different molecular structure. *K. Peponaki, D. Parisi and D. Vlassopoulos*
- PO38.** The rheology and scattering behaviour of Locust Bean Gum (LBG) in aqueous glucose solutions. *K. Bayram, S. Connell, R.M.L. Evans, P. Schuetz, A. O'Connell and J. Mattsson*
- PO39.** Effects of Monovalent and Divalent Cations on the Rheology of Entangled DNA. *J. Harnett, D. Michieletto and S. Weir*
- PO40.** Fatigue analysis of rHDPE and PE-PP blends via Fourier Transform of the stress on a modified rubber rheometer. *A. Goecke, V. Hirschberg and M. Wilhelm*
- PO41.** Flow-induced by ultrasonic waves on non-degassed polydimethylsiloxane with different viscosity. *M. Favre, E. Helal, S. Miralles, S. Dagois-Bohy, V. Botton, É. David and N. R. Demarquette*
- PO42.** Rheological Assessments of the Preparation and Aging of CTAB/NaNO<sub>3</sub> Solutions Targeting Reproducible Flows of Wormlike Micelles. *S. Davoodi, K. Amini, O. Tammisola and F. Lundell*
- PO43.** Investigation of the effect of the gradual increase in strain in a step shear experiment on the molecular dynamics of hydrogels. *S. L. Palloks, A. S. Mollenkopf and M. Wilhelm*
- PO44.** Kinetik calculations for understanding the impact of thermo-mechanical treatment on the rheological properties of HDPE. *T. Schülein, V. Hermann and M. Wilhelm*
- PO45.** Mechanical degradation of polymer solutions in lubricating mineral oil. *S. Coppola, A. Russo, G. Cozzolino, G. Ianniruberto and G. Marrucci*
- PO46.** Impact of aging on Chemical and Rheological Characteristics of self-healing asphalt binder. *N. AKKOURI, A. Nayad, Y. Zghoundi, M. Boutgoulla, M. Boutgoulla, Y. Taha, R. Hakkou, K. El azdi, M. Kebir, Z. Edfouf and Y. Agzenai Ben Salem*
- PO47.** Multiscale viscoelasticity of locust bean gum in aqueous and sucrose solutions as probed using bulk and microrheology. *A. O'Connell, P. Schuetz, R. Armenta-Calderon, A. Vaccaro and J. Mattsson*
- PO48.** The effects of liquid crystallinity and mechanical deformation on the molecular relaxations and viscoelasticity of liquid crystal elastomers. *T. Raistrick, M. Reynolds, G. F. Helen and J. Mattsson*
- PO49.** 3D Printed Liquid Crystal Elastomers. *V. Huf, D. Mistry, D. J. Read and O. Harlen*
- PO50.** Phan-Thien-Tanner model applied to different materials extrusion. *C. Fiorillo, T. Van Waeleghem, L. Cardon, D. R. D'hooge and M. Edeleva*
- PO51.** Effect of radical initiators on the phase structure and rheological properties of PLA/PHA blends. *H. Kim*
- PO52.** Understanding UHMWPE wear: The impact of crystallinity and entanglement density. *M. Bek, R. Kádár and N. Emami*
- PO53.** The study of rheological properties of catalyst-free upcycled polyethylene terephthalate(PET) vitrimer from PET bottles. *S. Jin and K. Hyun*

- PO55.** Evaluation of the Degree of Graphite Dispersion in Lithium-Ion Battery Anode Slurries Using Nonlinear Rheological Properties via FT-Rheology. *J. Lee and K. Hyun*
- PO56.** Silica ionogels as smart materials for energy storage devices. *C. A. Gracia Fernández, A. Santiago, J. M. Antelo, V. María, J. J. Parajó and S. Josefa*
- PO57.** Decisive External Factors Affecting the Electrorheological Effect of Waxy Oil. *H. Li, Y. Xie and J. Zhang*
- PO58.** Rheological characterization of superplasticizers in self-levelling smoothing compound for flooring applications. *E. Carlini, S. Carrà, F. Curto and L. Pellicano*
- PO61.** Rheological studies of thermally reactivated cements mixed with varying water-cement ratios. *S. Helmich, N. Noel, A. Z. Gierth, S. Nawrath, T. Mielke and D. C. Lupascu*
- PO62.** Investigating the effect of agitator geometry on the performance of sawtooth impellers for processing high solid pastes. *S. Deshpande, S. Deshpande, Z. Berisford, J. Mills, T. Abadie, A. Ingram, B. Wolf and J. O'Sullivan*
- PO64.** Large Amplitude Oscillatory Shear of Elastoviscoplastic (Saramito) fluids. *R. Agrawal, E. García-Tuñón, R. J. Poole and C. P. Fonte*
- PO66.** Fluid-mediated impact of soft solids. *J. Bilotto, J. Garcia-Suarez, J. M. Kolinski, B. Lecampion, J.-F. Molinari and G. Subhash*
- PO67.** Particle equilibrium positions in the microchannel flow of the Carbopol solution, a model yield stress fluid. *D. Jin, J. M. Kim and J. Nam*
- PO68.** Exploring the relative importance of strain rate and strain in governing yielding in oscillatory experiments. *M. Helfer, H. M. Wyss and V. Trappe*
- PO69.** Network modelling of yield-stress fluid flow in randomly disordered porous media. *E. M. Sutton, K. Ohei, M. Jalaal, Y. Tasaka, C. P. Fonte and A. Juel*
- PO70.** Rheological properties of clay-polymer composite hydrogels for bioremediation. *C. Gila-Vilchez, A. Leon-Cecilla, M. Á. Ruiz Fresneda, E. González-Morales, A. L. Medina-Castillo, M. L. Merroun and M. T. Lopez-Lopez*
- PO71.** Designing athermal disordered solids with automatic differentiation. *M. Zu*
- PO72.** How does synergy play a role in the mechanics of a double-network hydrogel?. *V. Kopnar, A. Auferhorst-Roberts, N. Shirshova and A. O'Connell*
- PO73.** Rheological behaviour of syneresis evolution in HydroxyPropyl(Methyl)Cellulose (HPMC) hydrogels doped with porous silica particles. *S. Perez-Robles, C. Carotenuto and M. Minale*
- PO74.** Rheological innovative analysis of CNPs coatings. *C. Carotenuto, R. Griffo, F. Di Natale, M. Sirignano and M. Minale*
- PO75.** An investigation of Liver Viscoelasticity through Dynamic Mechanical Analysis. *F. Briatico Vangosa, G. Guagliano and P. Petri*
- PO76.** 3D bioprinting for building spatially distributed microbial populations. *S. Rehmat, D. Tammaro and P. L. Maffettone*
- PO77.** Rheological insight on 3D printable biomaterials. *M. Fernandez-San Martin, I. Insua, I. Calafel, R. Aguirresarobe, J. Nunes, D. Dupin and A. Acera*
- PO78.** Applying Cryo-SEM with in-situ rheology measurements synergistically. *D. Katrantzi, L. Dougan, A. P. Brown and N. Hondow*
- PO80.** Motion of Semi-Flexible Fibres Under Shear Flow. *N. Hajaliakbari, D. Head and O. Harlen*
- PO81.** Plasticity of fibrin networks: human versus bovine. *V. Geimer and U. Windberger*
- PO82.** The role of plasma for the mechanical properties of blood suspensions. *U. Windberger, A. Sparer and K. Elsayad*
- PO83.** Front Microrheology: relation between blood viscosity and red blood cells biomechanical properties in health and disease. *C. A. Trejo-Soto and A. Hernández-Machado*
- PO84.** Living droplets: cell spreading as a wetting problem. *A. A. Wahhod, J. Etienne and J. Fouchard*
- PO85.** A Cost-effective Rheo-Optical Compression Assay for the Mechanical Characterization of Cell Spheroids. *R. Ferraro, S. Guido, M. Tassieri and S. Caserta*
- PO86.** Adhesion of nanocarriers to endothelial cells under flow: A Machine Learning approach. *J. Maia and S. Akbari Shandiz*
- PO87.** Rheological characterization of artificial erythrocytes with encapsulated tracer particles for cardiovascular flow modeling. *G. Hentschel, C. M. Winkler, F. Rummel and B. Glasmacher*
- PO88.** Manipulation of the mesoscale architecture of protein hydrogels for controlled release and mechanics: A smart stimuli responsive drug delivery material. *A. Boroumand, M. D. Hughes, D. Katrantzi, L. Willis, D. J. Brockwell, S. Peyman, A. Tyler and L. Dougan*
- PO90.** Bacterial sedimentation: Effects of activity?. *H. Nam*
- PO91.** CFD simulation of fouling effect on feed water heater outlet temperature. *E. E. Duke*
- PO92.** Numerical Approach to Paraffin Gelation in Pipelines. *N. de Rosso, C. Negro, S. Junqueira and D. Barbara*
- PO93.** Investigating the Ultrasound-Mediated Rheological Properties of Microcrystalline (CMF) and Nanofibrillated Cellulose (CNF): A Model-Based Approach. *A. Rucigaj and T. Kopac*
- PO94.** Giant electroviscous effect in ferroelectric nematic liquid crystals. *P. K. Mylapalli, J. Karcz, P. Kula, K. Karmakar and S. Dhara*
- PO96.** Effect of viscosity ratio on the behaviour of ferrofluid droplet emulsions. *G. M. A. Sultan, P. Cappobianchi and M. S. Oliveira*
- PO97.** Deformation and breakup of a single droplet in extensional flow studied by numerical simulation. *J. Jeong and Y. K. Lee*
- PO98.** Multiscale dynamics in supercritical Taylor-Couette flow of nanostructured fluids. *R. Ghanbari, K. Sekar, V. Ghai, M. Bek, A. E. Terry, K. Nygård and R. Kádár*
- PO99.** Buoyancy driven flow of droplets in viscoelastic fluids. *G. Esposito, Y. Dimakopoulos and J. Tsamopoulos*
- PO100.** Flow Asymmetry in Planar Flows enhanced by Viscoelasticity. *V. ChandraShekar, A. Ayala, B. Laclau, G. Maîtrejean and H. Bodiguel*
- PO101.** Experimental study of dilute polymer solution flow in the converging-diverging channels with axial symmetry. *A. Kadyirov, I. Shvedov and R. Zarpov*
- PO102.** How do polymers stretch in capillary-driven extensional flows?. *V. Calabrese, F. Hillebrand, A. Shen and S. J. Haward*
- PO103.** Jetting prediction model for weakly viscoelastic Ink by machine learning. *S. Kim, S. Jung and G. Balestra*
- PO104.** Air entrainment in falling viscoelastic jets: new complex fluid flow phenomena. *T. John, J. King, S. J. Lind and C. P. Fonte*
- PO105.** Investigation of the Deborah number effect over jetting prediction. *J. Richardot, S. Kim and S. Jung*
- PO106.** Unpicking the SECRETs of kinematically mixed rheology with Shear Extension Combined Rheology Experimental Techniques. *R. Hodgkinson*
- PO107.** Rayleigh-Benard type stability in Non-Newtonian Fluid using RheoTool based PTT Model Simulation. *G. Maurya, S. Singh and L. Kumar*
- PO108.** Elastic turbulence in two-dimensional Taylor-Couette flows. *L. Campana and E. De Angelis*
- PO109.** Energy cascade and intermittency in turbulent elastoviscoplastic flows. *M. S. Abdelgawad, I. Cannon and M. E. Rosti*
- PO110.** Direct numerical simulation of roll waves in an elasto-viscoplastic fluid. *A. G. Balasubramanian, D. Denisenko, G. Richard, G. Chambon, R. Vinuesa and O. Tammisola*



## Posters

- PO111. Numerical study of elasto-visco-plastic flows past a confined cylinder. *M. Mousavi, J. Tsamopoulos and Y. Dimakopoulos*
- PO112. Entrance flow of viscoplastic materials in annular tubes in the presence of wall slip. *E. Gryparis, A. Syrakos and G. C. Georgiou*
- PO113. Buoyant miscible viscoplastic fluid injections in a closed-end pipe. *S. Akbari and S. M. Taghavi*
- PO114. Yield stress fluid deformation in vicinity of a porous wall under air current. *N.-O. Tanase and C.-S. Mateescu*
- PO115. Pinch-off of an elasto-visco-plastic filament: Scaling analysis and self-similarity. *P. Zakeri, P. Moschopoulos, Y. Dimakopoulos and J. Tsamopoulos*
- PO116. Interacting tandem pairs of bubbles in elastic yield stress materials. *A. Kordalis, Y. Dimakopoulos and J. Tsamopoulos*
- PO117. Particle alignment and bubble deformation in solidifying magma and lava flows. *C. Allgood and E. W. Llewellyn*
- PO118. Investigating the influence of magma viscosity on the 3D structure and morphology of volcanic domes. *K. D. Ni Nualláin and C. E. Harnett*
- PO119. Simulating the rheology of polydisperse wet granular materials using pairwise formulation of contact, lubrication and Brownian forces. *C. Ness, X. Li and J. Royer*
- PO120. The Rheological Feasibility of Magma Mixing at the Drumadoon Sill, Isle of Arran. *F. Butler*
- PO121. Shedding (laser) light on fluid flow in a porous medium. *C. M. Chalk*
- PO122. Understanding the physical properties of commercial snack products and their influence on digestion dynamics. *A. Makrypidis, Z. Liao, M. M. Papathanasiou, M. N. Charalambides and S. Tibos*
- PO123. Simple 2D texture mapping of characteristic food samples from rheological data. *F. Meyer*
- PO125. How do cooling die temperature and shear rate influence the texture development of pea protein-based meat analogues. *M. G. Gräfenhahn*
- PO126. Modulation of the fibrous structures of high moisture meat substitutes by altering the pH. *F. Ellwanger, M. Fuhrmann, U. van der Schaaf, H. P. Karbstein and G. I. Saavedra Isusi*
- PO127. Structure, Rheological Behavior, and Foam-Stabilizing Potential of Kidney Bean Proteins at the Air-Water Interface. *W. Yin and S. Leonard*
- PO128. Large amplitude oscillatory shear (LAOS) for nonlinear rheological behavior of fish myofibrillar protein in paste. *O. Timilehin Martins and W. B. Yoon*
- PO129. Investigating rheological characteristics of protein-polysaccharide crosslinked hydrogels for enhanced spinnability of fibres. *L. Vaniyam, G. E. Yakubov and G. E. Pavlovskaya*
- PO131. Influence of biopolymer-water interactions on selected rheological properties of ionic polysaccharide solutions. *A. Ptaszek, J. Kruk, K. Kaczmarczyk and P. Ptaszek*
- PO132. Influence of extraction temperature on the rheological properties of Plantago Ovata husk mucilage solutions. *A. Ptaszek, M. Liszka-Skoczylas, M. Witek and U. Goik*
- PO133. Rheomicroscopy of starch gelatinisation. *M. Stading, C. Öhgren and N. Lorén*
- PO134. Ascorbic acid mediated hydrolysis of galactomannans. *M.-A. Kamlow, M.-A. Kamlow, J. Marks, I. Fisk and G. E. Yakubov*
- PO135. Comparable analysis of rheological and tribo-rheological properties of milk and plant-based milk alternatives. *C. Küchenmeister-Lehrheuer, P. Beutler, M. Trat and G. I. Saavedra Isusi*
- PO136. Shear rheology and adsorption measurements unveiling the mucoadhesive properties of lactoferrin. *B. Hazt, D. J. Read, O. Harlen, W. C. Poon, A. O'Connell and A. Sarkar*
- PO137. Investigation of the interfacial properties of yeast cells (*Saccharomyces cerevisiae*) and their components in emulsion-based foods. *L. Riedel, H. P. Karbstein and U. van der Schaaf*
- PO138. Characterisation and interfacial properties of foams stabilised by mung bean proteins and pectin. *C. Buathongjan, J. Landman and L. Sagis*
- PO140. Application of the kinetic equation for changes in fluidity (D) to food foams stabilised by selected polysaccharides. *P. Ptaszek and A. Ptaszek*
- PO141. Ionic strength effect in the equilibrium and rheological behavior of an amphiphilic triblock copolymer at the vapor-solution interface. *C. Carbone, E. Guzmán Solís, R. González Rubio and F. Ortega Gómez*
- PO142. Rheological investigation of chain modified recycled polyethylene terephthalate/polybutylene terephthalate blends and their corresponding foaming behavior. *Y. Akdevelioglu, A. Himmelsbach, H. Ruchdäschel and M. Nofar*
- PO143. How accurate are pendant drop methods in measuring surface rheology?. *M. Rodríguez Hakim, N. O. Jaensson, M. A. Rubio and J. Vermant*
- PO144. Nanoscale mastery: precision control of non-newtonian droplet impacts via surface acoustic wave devices and nature inspired coatings. *L. J. Haworth, M. Biroun, P. Agrawal, H. Torun, G. McHale and R. Fu*
- PO145. Immersed viscoelastic jets in microfluidics. *E. Chiriac, M. Avram and C. Balan*
- PO146. Numerical simulation of platelet aggregation in microfluidics. *M. Trofa, M. Nouman, G. D'Avino and P. L. Maffettone*
- PO147. Impacts of hole size on pattern formation in lifted Hele-Shaw cells. *D. K. Roughton-Reay, A. Prashant and B. Vincent*
- PO148. Application of planar elongational flow-based microfluidic device to the characterization of the morphology of non-spherical graphite utilizing viscoelastic particle focusing. *J. I. Park, S. Hong, D. Jin, K. J. Kim, J. Nam, W. J. Lee, S. W. Lee, K. H. Ahn, J. Hwang and J. M. Kim*
- PO149. Living cells as a biological analog of optical tweezers – a non-invasive microrheology approach. *W. Hardiman, M. Clark, C. Friel, A. Huett, F. Pérez-Cota, K. Setchfield, A. J. Wright and M. Tassieri*
- PO150. Machine learning opens a doorway for microrheology with optical tweezers in living systems. *M. G. Smith, J. Radford, E. Febrianto, J. Ramirez, H. O'Mahony, A. B. Matheson, G. M. Gibson, D. Faccio and M. Tassieri*
- PO151. Measuring the viscoelastic properties of microscopic soft particles using time-dependent Capillary Micromechanics. *K. J. Bakaj and H. M. Wyss*
- PO152. An innovative 3D Printed rheometric tool to study chemorheology. *A. Altobelli, R. Pasquino and N. Grizzuti*
- PO153. First normal stress difference of rubber compounds at high shear rates via capillary rheometer, basis for the estimation of material processability. *M. Khabazian Esfahani and J. Sunder*
- PO154. Advanced extensional rheometry experiments on a rotational rheometer platform. *J. Haeberle, M. G. Schussmann, M. Khabazian Esfahani, J. A. Rodríguez Agudo, J. Scheller, D. Sachsenheimer, M. Wilhelm, J. Läger and G. Arnold*
- PO155. Exploring fluids' behavior: Lab-scale capillary breakup extensional rheometer and its applications in polymer processing. *É. J. Beaudoin, M. M. Kubaski, R. J. Zednik and N. R. Demarquette*
- PO156. Fatigue analysis via Fourier Transform of the stress. *A. Goecke, V. Hirschberg, D. Rodrigue and M. Wilhelm*
- PO159. Measuring the deflection of the interface between a Newtonian and a viscoelastic fluid to determine the second normal stress difference. *L. Passaro, E. Pashkovski and C. Clasen*
- PO160. In-line RheoSANS at ISIS Target Station 2 – recent results and developments. *J. Douch*

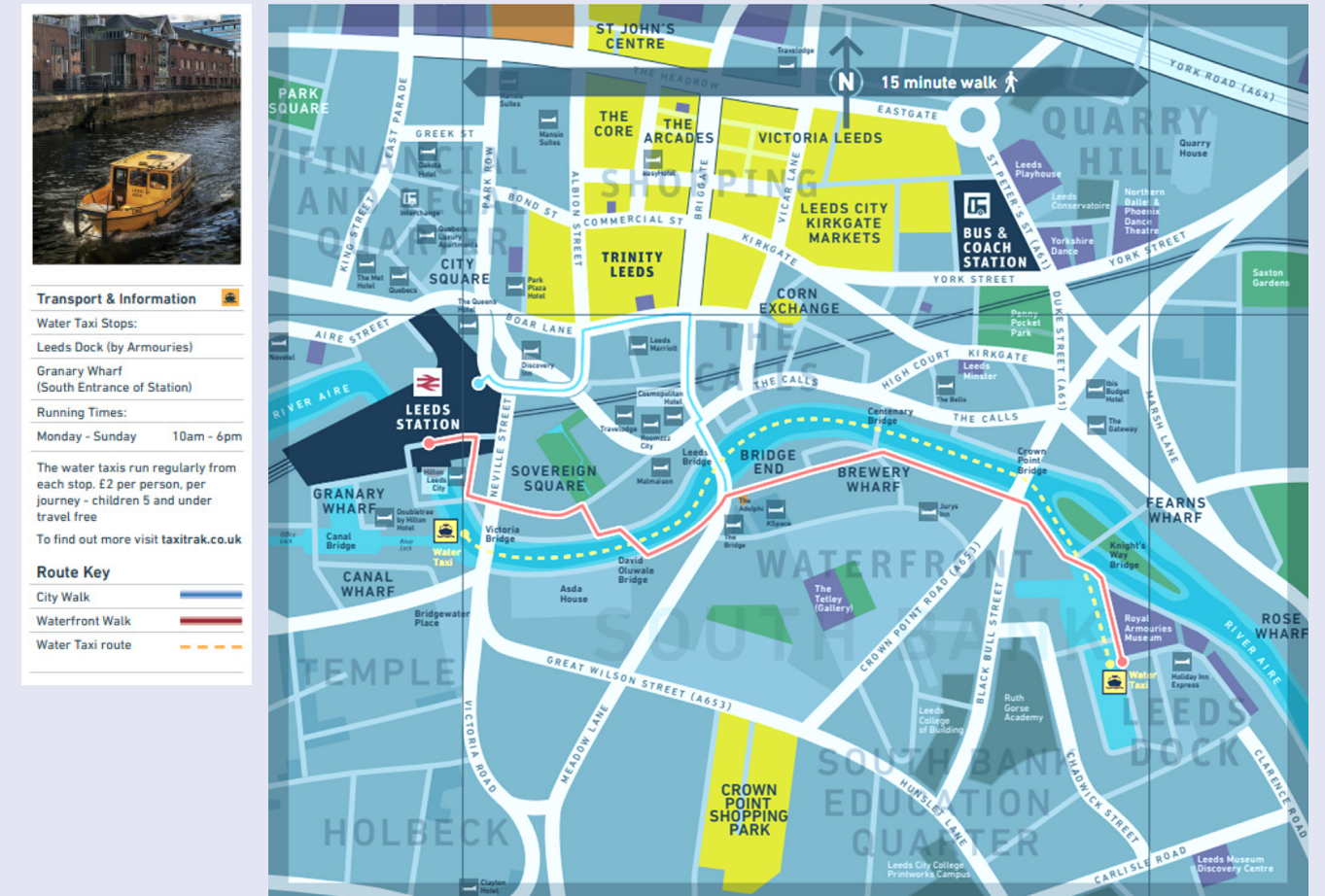
## Royal Armouries



The Conference Dinner will be hosted at the Royal Armouries. We will start with a Welcome Reception at 19:00 in the Galleries where you will be entertained by an exciting enactment scene prior to the call to dinner at 19:45.

A delicious 3 course meal will be served from 20:00, both wine, bottled beer and bottled water will be on every table, for you to enjoy with your meal. There will also be a bar if you care to purchase any further drinks. Last drinks from the bar will be served at midnight and then departure to your hotels.

Below is a walking map indicating the way to the Royal Armouries and back into Leeds City Centre (approx 20 - 30 minute). Taxis are also available from outside Leeds main train station.





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\*Posters will be on display throughout the conference in the exhibition hall. There are plenty of opportunities to stop by and discuss your work. We look forward to meeting you.

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