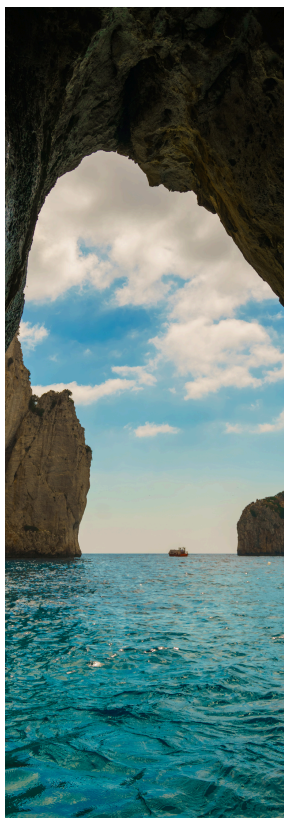
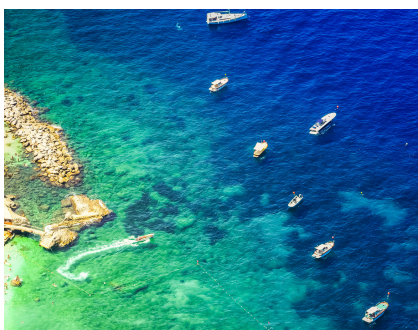




XVIII

ITALIAN SOCIETY OF
RHEOLOGY CONFERENCE

Capri, 12 - 14 Sept 2024



PROGRAM

Thursday, September 12

08:20	Registration
08:40	Opening Ceremony

09:00	Keynote: Interfacial rheology of microgels at liquid-liquid interfaces	E. Zaccarelli
-------	---	---------------

ADVANCED MATERIALS (GELS)

M. Minale, E. Zaccarelli

09:40	Soft and responsive: rheological insights into PNIPAM based microgels	R. Angelini
10:00	Rheological behaviour of thermoreversible hydroxypropyl(methyl)cellulose hydrogels doped with particles	S. Perez Robles
10:20	Nuclear magnetic resonance and advanced microscopy to study complex fluid microstructure	C. D'Agostino
10:40	Coffee Break	

BIOWORLD (BIOLOGICAL FLUIDS)

L. Lanotte, V. Preziosi

11:10	Effect of true 3D vascular structures on the flow of aggregating red blood cells	P. Lettinga
11:30	Thrombus morphology and growth: exploring the impact of hematocrit and wall shear rate using microfluidics	E. Pero
11:50	Rheological characterization of menstrual fluid	J. Claussen & C. Neu
12:10	Effect of reducing agent on the viscoelastic properties of porcine gastric mucus	G. Franzino
12:30	Lunch	

NEW FRONTIERS

G. Ianniruberto, P. Lettinga

14:00	On the effect of multiphase system rheology on some chemical technology processes	O. Oikonomidou
14:20	Most recent developments of rheology – Impedance measurements for conductive slurries	M. Coletti
14:40	Innovative mechanochromic photonic crystals for visual strain sensing	M. Martusciello
15:00	Machine-learning-based measurement of relaxation time via particle ordering	M. De Micco
15:20	Coffee Break & Poster Session	

INDUSTRIAL PRODUCTION (FOOD)

G. Baeza, F. R. Lupi

16:20	Stabilization of cricket protein emulsions by low-methoxyl pectin: an interfacial rheology study	S. Aprile
16:40	New insights on fouling mechanisms explored by rheo-fluidics at the microscale	L. Lanotte
17:00	Rheology of microfluidized emulgels structured with citrus fiber	D. Mammolenti
17:20	From food rheology and tribology to consistency and texture perception	M. Ramaoli
17:40	The role of powder rheology in the design and development of novel oral solid dosage food supplements	G. Tafuro

PROGRAM

Friday, September 13

08:20 Sessions Opening

BIO WORLD (BIOTECHNOLOGIES)

D. Gabriele, S. Migliozi

08:30	An investigation of liver viscoelasticity through dynamic mechanical analysis	F. Briatico Vangosa
08:50	A cost-effective rheo-optical compression assay for the mechanical characterization of cell spheroids	R. Ferraro
09:10	Magnetic hyperthermia in non-Newtonian and phase-transition fluids	G. Baeza
09:30	Microscopic origin of the increase in viscosity in concentrated solutions of monoclonal antibodies	F. Camerin
09:50	The sedimentation role on bacteria asymmetrical distribution in confined environments	D. Marra
10:10	Coffee Break	

ADVANCED MATERIALS (MULTIPHASE FLUIDS)

R. Angelini, D. Tammaro

10:40	Numerical simulations of the sedimentation of soft particles in confined Newtonian liquids	M. Villone
11:00	Microfluidic pressure-driven flow of a pair of particles in elastoviscoplastic materials	G. Esposito
11:20	Stability and rheological behaviour of High Internal Phase Emulsions (HIPEs) with potential application for 3D printed functionally graded porous materials	V. Rosciardi
11:40	Temperature driven self-assembly of Pluronic F68 with different salts	R. Pasquino
12:00	The central role of colloids to explain the crystallization dynamics of halide perovskites: a rheological study	D. Amoroso
12:20	Family Photo	12:30 Lunch

INDUSTRIAL PRODUCTION (NON-NEWTONIAN FLUIDS)

N. Baldino, R. Pasquino


13:50	Influence of Carreau number on relaminarization of turbulent shear thickening channel flow	E. Milocco
14:10	SPH simulations of integral fractional viscoelastic models for LAOS and other complex flows	L. Santelli
14:30	Linear and nonlinear shear rheology of unentangled pom-pom polymers	G. Ianniruberto

ENVIRONMENT

N. Baldino, R. Pasquino

14:50	Rheology and foaming of linear and branched polyolefin melts	S. Costanzo
15:10	Kinetic model and viscometry of plastic degradation in the sea from macro to micro and nanoplastics	V. Villani
15:30	Coffee Break	

CHATTING *a*ROUND RHEOLOGY

16:00	Rheology: Back to the Future	N. Grizzuti
16:20	Round Table	 D. Ferri, M. Minale, S. Guido
17:30		
19:00	Shuttle Transfers	19:30 Social Dinner

PROGRAM

Saturday, September 14

08:20 Sessions Opening

8:30 **Keynote:** The role of viscoelasticity in thin lubricated contacts

L. Biancofiore

INDUSTRIAL PRODUCTION (INTERFACES)

L. Biancofiore, S. Costanzo

09:10 Bubble-driven creation of stable thin film structures: experimental insights and mechanistic understanding L. Lombardi

09:30 Pickering emulsions for stimuli-responsive transdermal drug delivery: effect of rheology and microstructure on performance S. Miglioizzi

09:50 Bubbles growth in additive manufacturing at high Graetz number D. Tammaro

10:10 Tuneable conductive foamed structures through additive manufacturing L. Gala

10:30 Coffee Break

INDUSTRIAL PRODUCTION (POLYMERS)

G. Filippone, M. Villone

11:00 Measuring the second normal stress difference via interfacial deformation L. Passaro

11:20 Kinetics of void formation in the rubber phase of rubber toughened polymers inferred by isothermal cavitation experiments D. Ferri

11:40 Efficient devulcanization strategies for enhanced tire rubber recycling: a comparative Study of BR and NR with devulcanization promoters S. Moliterno

12:00 Rheological characterization of block copolymers in organic solvents I. Perna

12:20 Influence of polyethylene oxide addition on the elongational properties of low concentration Carbopol solutions F. Gallo

12:40 Closing Ceremony & Brunch

Posters

1	Dynamics of particle migration in Poiseuille flow of elasto-viscoplastic fluid	A. Abbasi Yazdi
2	Rheological study of high-protein Canapa fresh pasta	N. Baldino
3	Shape instabilities control in slit dies design for foaming extrusion process	C. Esposito
4	Correlation between cross-linking of the rubbery phase and aesthetic properties in ABS copolymers	D. Ferri
5	CFD simulation of spray drying for non-Newtonian fluid solutions: understanding rheological impacts on nozzle behavior and droplet formation	I. Foglia
6	Computational fluid dynamics of complex multiphase systems through electrohydrodynamic effect (EHD) for microfluidic applications	G. Fontanarosa
7	Rheological properties of dietary fiber suspensions as a function of water solutes	D. Gabriele
8	Modelling and simulation of incompatible polymer blending in twin-screw extruders	M. Giglio
9	Carbon nanoparticles at liquid interface: a preliminary investigation with pendant drop techniques	R. Griffo
10	Miniaturization of the fouling of whey proteins by microfluidics	M. Grostete
11	Numerical modeling of the rheology of industrially relevant colloidal depletion gels	N. Kolezakis
12	Industrial bread enriched with citrus fiber: rheological properties of doughs	F. R. Lupi
13	Suspensions of porous silica particles in PEG: a preliminary investigation	H. Nassiri
14	Numerical simulation of platelet aggregation in microfluidics	M. Nouman
15	Interfacial shear rheology as a tool to investigate the intermolecular structure of binary surfactant mixtures at the surface of flotation solutions	O. Oikonomidou
16	Agarose low-gelling temperature: correlation between rheological proprieties and spinnability	S. Pettineo
17	Morphogenerators in bacterial immobilization for advanced probiotics	S. Rehmat
18	Numerical simulations of non-Newtonian fluids in spray drying process: particles analysis and characterization	F. Vallefucio
19	Comparative analysis of the rheology of biofuels and their mixtures with fossil fuels for maritime applications	M. Zabatta