

Session Program

15-19 May 2023



8th Pacific Rim Conference on Rheology

Suspensions and Colloids

University of British Columbia, Point Grey Campus, Mathematics & Geography Buildings
1984 Mathematics Rd / 1984 West Mall Vancouver, BC V6T 1Z2 CANADA

Tuesday 16 May

10:30

Suspensions and Colloids

Session | **Location:** Geography Building, Room 147, 1984 West Mall Vancouver, BC V6T 1Z2 | **Convener:** Sarah Hormozi

10:30–10:50

Non-Brownian suspensions in pressure-driven flow: numerical simulations with frame-invariant sub-grid corrections

Speaker

Dr Michel Orsi

10:50–11:10

FINITE SYSTEM SIZE CORRECTION IN MICRORHEOLOGICAL ANALYSIS UNDER PERIODIC BOUNDARY CONDITIONS : A DIRECT NUMERICAL SIMULATION APPROACH

Speaker

Prof. Yasuya Nakayama

11:10–11:30

Lubrication force between two approaching cylinders in a Bingham fluid

Speaker

Anthony Wachs

11:30–11:50

Cross Flow Filtration of Viscoplastic Suspensions, a Robust Mathematical Model

Speaker

Mahdi Izadi

11:50–12:10

IMPARTING EXTENSIBILITY TO JAMMED COLLOIDAL INKS FOR DIRECT-INK-WRITING PRINTABILITY

Speaker

Dr Chaimongkol Saengow

12:10

14:00

Suspensions and Colloids

Session | **Location:** Geography Building, Room 147, 1984 West Mall Vancouver, BC V6T 1Z2 | **Convener:** Anthony Wachs

14:00–14:40

KEYNOTE: The Role of Rolling Resistance in the Rheology of Wizarding Quidditch Ball Suspensions

Speaker

Sarah Hormozi

14:40–15:00

Adjuvanted silica suspensions: from particles contact properties to rheology

Speaker

Xavier Chateau

15:00–15:20

Rheology of High Performace Cement-Based Materials For Use in Additive Manufacturing

Speaker

Nicos Martys

15:20–15:40

EXPLORING THE INTERPLAY BETWEEN INTERPARTICLE FORCES, RHEOLOGY, AND TRIBOLOGY IN NANOCCLAY-BASED NANOLUBRICANTS

Speaker

Leonardo Martín Alarcón

15:40

16:10

Suspensions and Colloids

Session | **Location:** Geography Building, Room 147, 1984 West Mall Vancouver, BC V6T 1Z2 | **Convener:** Gwynn Elfring

16:10–16:50

KEYNOTE: Rheology of active colloids: motility-induced shear-thickening

Speaker

Hartmut Löwen

16:50–17:10

DENSITAXIS OF SWIMMING MICROORGANISMS

Speaker

Vaseem Shaik

17:10–17:30

Hydrodynamic interactions of active matter near boundaries

Speaker

Seyed Arman Abtahi

17:30–17:50

DYNAMICS OF 2D COLLOIDAL CRYSTALS IN THE PRESENCE OF LOCALIZED INTERNAL STRESSES CREATED BY ACTIVE PARTICLES

Speaker

Dr Jacob John

17:50

Wednesday 17 May

14:00

Suspensions and Colloids

Session | **Location:** Geography Building, Room 147, 1984 West Mall Vancouver, BC V6T 1Z2 | **Convener:** Hartmut Löwen

14:00–14:40

KEYNOTE: Shear thickening in dense suspensions of rigid rods

Speaker

George Petekidis

14:40–15:00

Flow-induced structural change of cathode slurry during storage and its mechanism

Speaker

Mr Jeong Hoon Park

15:00–15:20

PRACTICAL RHEOMETRY FOR SUSPENSIONS AND OTHER FUN COMPLEX SYSTEMS

Speaker

David Moonay

15:20–15:40

YIELD AND FLOW IN AGGREGATED PARTICULATE SUSPENSIONS IN WATER

Speaker

Dr Anthony Stickland

15:40

16:10

Suspensions and Colloids

Session | **Location:** Geography Building, Room 147, 1984 West Mall Vancouver, BC V6T 1Z2 | **Convener:** Chaimongkol Saengow

16:10–16:30

INFLUENCES OF SHAPE OF MOLECULAR WEIGHT DISTRIBUTION ON TENSILE PROPERTIES OF POLYETHYLENE SOLIDS

Speaker

Takumitsu Kida

16:30–16:50

LINKING MULTISCALE RHEOLOGY TO PERFORMANCE OF HIERARCHICALLY STRUCTURED PEM FUEL CELL CATALYST LAYER

Speaker

Min-Hyung Markus Lee

16:50–17:10

Inertial flow of immersed elastic capsules through a corner

Speaker

Damien Huet

17:10–17:30

Slip Behaviour and Thixotropy of Kaolinite and Mature Fines Tailings

Speaker

Jourdain Piette

17:30-17:50

Z-SHAPED DEJAMMING PHASE DIAGRAM OF COLLOIDAL GELS

Speaker

Mr Bin Xia

17:50