

Monday Oct. 29th

Chair: Leen van Wijngaarden

9:00 Keynote: Andrea Prosperetti
 9:30 Sascha Hilgenfeldt:
 Rectification: Steady motion and Steady Forces from Oscillatory Flow
 9:45 Philippe Marmottant:
 Oscillations of a cubic bubble
 10:00 Ko van der Weele:
 The granular monoclinic wave, and beyond

10:15 Coffee Break

Chair: Leen van Wijngaarden

10:35 Hanneke Gelderblom:
 Freezing of liquid metal drops during impact
 10:50 Stefan Gekle:
 Hydrodynamic interaction of artificial particles and red blood cells
 11:05 Nicolas Bremond:
 Shaping hydrogels with compound liquid jet
 11:20 Enrico Calzavarini:
 Turbulent transport of passive and active particles
 11:35 Stefan Luther:
 Dynamics and Control of Electro-Mechanical Vortices in the Heart

11:50 Lunch (2 hours)

Chair: Jens Harting

13:50 Keynote: Xuehua Zhang
 14:20 Ivo Peters:
 Bubble Collapse and Jet Formation in Corner Geometries
 14:35 Tess Homan:
 Appearance and dynamics of a 2D heart
 14:50 Sylvain Joubaud:
 Energy cascade in internal wave attractors
 15:05 Henri Lhuissier:
 Suspension jets and drops

15:20 Coffee Break

Chair: Frits Dijkman

15:40 Peter Eshuis: Philips
 15:55 Jos de Jong | Arjan Bos: OCÉ
 16:10 Raymond Bergmann: Shell
 16:25 Alexander Klein: ASML

16:40 Break

Chair: Christian Diddens

17:00 Mauro Sbragaglia:
 Hydrodynamics of soft-glasses in microdevices
 17:15 Marie Caroline Jullien:
 Effects of confinement on diphasic systems
 17:30 Tuan Tran:
 The Cheerios effect for floating droplets
 17:45 Tim Segers:
 Fundamental fluid dynamics challenges in inkjet printing

Tuesday Oct. 30th

Chair: Jacco Snoeijer

9:00 Keynote: Chao Sun
 Final fate of a Leidenfrost drop
 9:30 Federico Toschi:
 Statistical properties of turbulence in presence of smart small-scale forcing
 9:45 Valeria Garbin
 Extreme deformation of complex fluids and interfaces
 10:00 Gabriel Caballero-Robledo
 Attraction and repulsion between objects in a granular flow

10:15 Coffee Break

Chair: Dominik Krug

10:35 Benjamin Dollet: Artificial drying leaves: drying of channels by evaporation through a permeable medium
 10:50 Anna von der Heydt
 The past predicts the future: Lessons on climate sensitivity
 11:05 Yoshiyuki Tagawa
 Impact-induced cavitation and liquid jets
 11:20 Richard Stevens
 Wind farm fluid dynamics
 11:35 Claus-Dieter Ohl
 Bubbles, drops, and gaps

11:50 Lunch (2 hours)

Chair: Dominik Krug

13:50 Keynote: Roberto Verzicco
 Matters of the heart: at the heart of the matter
 14:20 Antonin Eddi
 Temporal Control of Surface Waves
 14:35 Sander Huisman
 Mayonnaise-Couette Flow
 14:50 Dennis van Gils
 The new Twente Mass and Heat Transfer Tunnel
 15:05 Gert-Wim Bruggert
 20 years of challenges

15:20 Coffee Break

Chair: Frits Dijkman

15:40 Edip Can: Saxion
 15:55 Bram Borkent: NWO
 16:10 Wim van Hoeve: Tide microfluidics
 16:25 Aaldert Zijlstra: Philips
 16:40 Labtour (Meander)
 19:00 Dinner (Faculty club)

Wednesday Oct. 31st

Chair: Michel Versluis

9:00 Keynote: Chris de Korte
 Ultrasound: faster, better, and cheaper
 9:30 Peichun A. Tsai
 Nano/Micro-fluidics and Porous Media Flow
 9:45 Stefan Karpitschka
 Marangoni contraction of evaporating multi-component droplets
 Chair: 10:00 Alvaro Marin
 From coffee-stains to the big crunch

10:15 Coffee Break

Chair: Guillaume Lajoine

10:30 Maïke Baltussen
 Direct numerical simulations of mass transfer and phase transition in bubbly flow
 10:50 Claas Willem Visser
 Fluid Mechanics for Functional Materials
 11:05 Yantao Yang
 Fingering Double Diffusive Convection and Oceanic Thermohaline Staircases
 11:20 Minoru Shirota
 Bubbles in Drops Impacting Hot Surfaces

11:35 Coffee Break

Chair: Michel Versluis

11:55 Pengyu Lyu
 Stability of underwater superhydrophobicity-from metastable to ultimate stable states
 12:10 Oscar Enríquez
 Foaming beers and other gas eruptions: dynamics of bubble-laden thermals
 12:25 Marie-Jean Thoraval
 Vertical jets in drop impact
 12:40 Devaraj van der Meer
 Raindrop impact on sand

PHYSICS OF FLUIDS FOR THE 21ST CENTURY



Physics of Fluids

28TH-31ST OCTOBER 2018

The Reception

Sunday 28th October

The reception will be held in the Vrijhof building (47, see map below) at the University of Twente campus, just across the Drienerburght Conferentie Hotel (44) and a few minutes from the bus stops connecting to Enschede train station. A registration desk will be open from 15:00 and coffee and tea will be served. The opening presentation by [Detlef Lohse](#) will begin at 16:00 in the [Vrijhof Amphitheater](#), followed by drinks and warm snacks at 17:00.

The Scientific Program

Monday 29th -Wednesday 31st October

All scientific talks will be held in the [Vrijhof Amphitheater](#) (47). The registration desk will still be open during most of the breaks.

Getting to the campus

To get to the campus from Enschede train station. Take either bus 1 to Universiteit (final stop inside the campus) or the fastest bus 9 to Hengelo (stop at Kennispark/UT).

Lab Tour

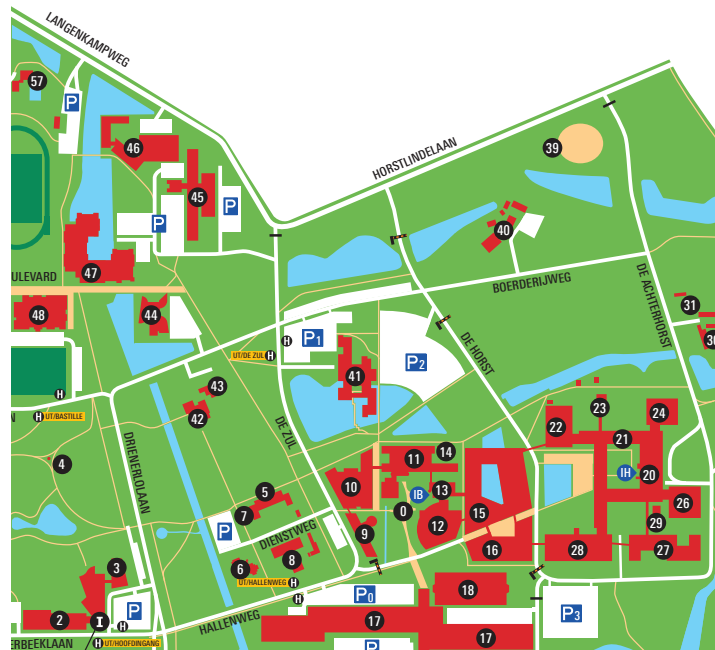
Tuesday 30th October

A lab tour will be offered to all participants in our labs in [Meander](#) (27). Those interested must sign for the tour during the registration. The lab tour will include the Taylor-Couette lab, the Water Tunnel lab, the ink-jet lab and the Brandaris lab.

Workshop Dinner

Tuesday 30th October

The dinner will be held in the [Faculty club](#) (42) from 19:00, with welcoming drinks, pre-courses and buffet.



Daily lunches

Lunches will not be offered during the workshop. However, a large diversity of lunches are offered in the following locations (sorted by distance from venue):

- Vrijhof Café (47)
- Drienerburght Hotel (44)
- Subway Bastille (48)
- Faculty club (42)
- Waaier (12)
- Gallery (17)
- Horst (20)

Posters

Posters from participants and from current PoF members will be shown in the [Vrijhof Foyer](#) during the breaks. Contact any of the organizers if you need assistance to install your poster.

Organizers

If you have question or need any type of assistance, don't hesitate to contact any of the organizers:

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Jacqueline van der Lek-Rohof

Congress Association Twente, the Netherlands

J.M. Burgerscentrum

UF stichting universiteitsfonds twente

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