

P2SAC* FALL 2023 CONFERENCE

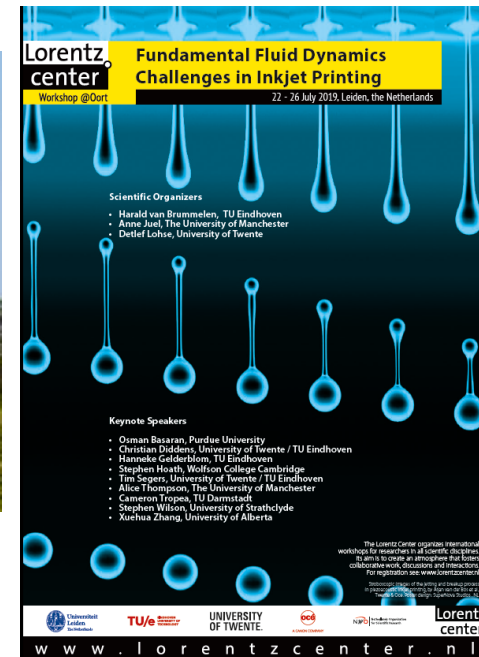
December 5-6, 2023



Safety
(npr.org)



**Safety and
assurance**
(agdaily.com)



Lorentz center Fundamental Fluid Dynamics Challenges in Inkjet Printing
Workshop @Oort 22 - 26 July 2019, Leiden, the Netherlands

Scientific Organizers

- Harald van Brummelen, TU Eindhoven
- Anne Joel, The University of Manchester
- Detlef Lohse, University of Twente

Keynote Speakers

- Osman Basaran, Purdue University
- Christian Diddens, University of Twente / TU Eindhoven
- Hanske Grijdenbos, TU Eindhoven
- Stephen Hoath, Wolfson College Cambridge
- Tim Segers, University of Twente / TU Eindhoven
- Alice Thompson, The University of Manchester
- Cameron Tropea, TU Darmstadt
- Stephen Wilson, University of Strathclyde
- Xuehua Zhang, University of Alberta

The Lorentz Center organizes international workshops for researchers in all scientific disciplines. It aims to create an atmosphere that fosters collaboration, discussion and interaction. For registration see www.lorentzcenter.nl

UNIVERSITY OF TWENTE
TU/e
Lorentz center
www.lorentzcenter.nl

Flow assurance

***Purdue Process Safety and Assurance Center**
<https://engineering.purdue.edu/P2SAC>

P2SAC FALL 2023 CONFERENCE

December 5-6, 2023

Tuesday, December 5:
***Tutorials on process safety
and assurance***

Tutorials from Kenexis, Merck, PSRG,
and Purdue

Wednesday, December 6:
***Conference on process
safety and assurance***

Location/venue: the conference and lunches will take place in Stewart Center (STEW 218) and the conference banquet will be held in the PMU North Ballroom on the Purdue campus in West Lafayette, IN.

Conference hotels/lodging: conference attendees can choose from a number of hotels including the Purdue Union Club Hotel (a Marriott Autograph Collection Hotel) that is located next door to STEW as well as many others that are available nearby in West Lafayette and also in Lafayette.

Conference registration: <https://cvent.me/lkXQAP>

Organizers: Prof. Osman Basaran (obasaran@purdue.edu), Academic Director, and Prof. Ray Mentzer (rmentzer@purdue.edu), Executive Director

Additional contacts: Amanda Shields (alschrei@purdue.edu) and Lauren Hays (hays14@purdue.edu)

Monday, December 4

(a) Informal group dinner (attendance restricted to those who have prepaid for the dinner during conference registration):

6:00 pm at 8Eleven in Purdue Union Club Hotel (the Marriott)

or

(b) Dinner on your own

Tuesday, December 5: Tutorials (STEW 218)

8:00-8:30	Registration; Coffee/Tea and Pastries
8:30-8:40	Osman Basaran (Purdue): Welcome
8:45-9:40	Ed Marszal (Kenexis): Overview of Layer of Protection Analysis
9:45-10:40	Tekin Kunt (PSRG): Best Practices for Management of Change and Maturity Level Measurements
10:45-11:40	Thomas Vickery (Merck): Assessing Corrosion Risks For New Processes And Potential Impact on \$\$ and Safety
11:45-1:00	Lunch (in meeting room)
1:00-1:55	Brett Savoie (Purdue): New Computational Tools for Predicting Reactivity
2:00-2:55	Sopuruchukwu Ezenwa (Purdue): Reactive Hazards Evaluation & Analysis Compilation Tool (RHEACT)
3:00-3:15	Short Break
3:15-4:10	Vilas Pol (Purdue): Batteries: Fundamentals, Recent Advances, and Inherent Safety Aspects
4:15-5:10	Brian Tackett (Purdue): Design of Electrochemical Flow Reactors
6:00	Conference Reception and Banquet (PMU North Ballroom; included in conference registration)

Wednesday, December 6: Conference on process safety and assurance (STEW 218)

Morning session

7:45-8:15	Registration; Coffee/Tea and Pastries
8:15-8:30	Osman Basaran (Purdue): Welcome and History and Status of P2SAC
8:35-9:00	Ray Mentzer (Purdue): P2SAC---Status Update
9:05-9:30	Prasad Goteti (Honeywell): Using Virtual Controllers in the Process industry
9:35-10:00	Timothy Hoff (ExxonMobil): Process Safety Deliverables in Projects
10:05-10:30	George Harriott (Air Products): Locating Pipeline Leaks (and Why It Is a Calculation That Is More Difficult Than Determining Whether a Leak Exists)
10:30-10:45	Short break
10:45-11:10	Can Li (Purdue): Machine Learning-aided Safety Hazard Detection and Identification
11:15-11:40	Bryan Boudouris (Purdue): Nanomaterials for Low-Power, Low-Cost Gas Sensors
11:45-12:10	Melinda Hartz (CSB): Combustible Dust Flame Propagation Through Pipelines – The Didion Milling Incident
12:15-1:30	Lunch (in meeting room)

Wednesday, December 6: Conference on process safety and assurance (STEW 218)

Afternoon session

- 1:30-1:55 Amy Theis (AcuTech): Identifying Thermal and Reactive Hazards in Manufacturing
- 2:00-2:25 Mary Beth Mulcahy (Sandia [SNL]): Security and Safety
- 2:30-2:55 Sarah Eck (Lilly): Building Our Network: Sharing for Safety
- 3:00-3:25 Bruce Vaughen (AIChE): Executing an Incident Investigation Properly
- 3:30-3:45 Short Break**
- 3:45-4:10 Lucas Martin Sy, Matt Pletcher, and Ray Mentzer (Purdue): AI & Process Safety
- 4:15-4:40 Pranay Nagrani, Amy Marconnet, and Ivan Christov (Purdue): Hydrodynamics of Bubble Flow through a Porous Medium with Applications to Packed Bed Reactors
- 4:45-5:30 Open Discussion on Industry Needs in Safety and Assurance
- 6:00 Informal group dinner** (attendance restricted to those who have prepaid for the dinner during conference registration): **8Eleven in Purdue Union Club Hotel (the Marriott)**