PDS 26 Program (as of 16 May 2026)

11 – 12 June 2026

Day 1 – June 11 2026

Session Opening

9h-9h10 Jean-Pierre Dal Pont, Tristan Cazenave
9h10-9h30 Frédéric Gauchet France Chimie

Session Strategy and Innovation

Chair: Jean-Pierre Dal Pont

9h30-10h00 Exploring the Megatrends Shaping the Industries of Tomorrow – Role of AIs
Ismahane Remonnay, Veolia

10h00-10h30 AI at the Heart of Industrial Transformation: From Concept to Real-World Impact
Hind Hafdi, Randstad Digital

10h30-10h50 From AI Decision tools to AI as a cognitive mentor that strengthens innovators' reasoning
Séverine Herlin, Vianeo

10h50-11h00 Break

Session Analytics

Chair: Valérie Lucas, Groupe Dehon

11h00-11h30 AI, Machine Learning and Analytical Sciences for the process industries: tools and applications
Sebastien Preys, Ondalys

11h30-11h50 Solving physicochemical separation problem using multivariate analysis
André-Marius Kapitan, GSK

11h50-12h10 Machine learning and nonlinear chemometric approaches for QC and PAT
Andreas Niemöller, Bruker Optics GmbH & Co. KG

12h10-12h25 Joint spectral-spatial data augmentation for hyperspectral imaging of plastic materials using GANs and residual noise from Savitzky-Golay smoothing
Marion Lacoue-Negre, IFP Energies nouvelles

12h25-12h40 AI-Enhanced Quantification of Heavy Metals in Mining Soils Using XRF and Physically-Informed Synthetic Data
Elhassan Daguagui, University Mohammed VI Polytechnic

12h40-12h50 Questions

Lunch Time: 12h50-14h00

Session Process Industries

Chair: Guo-Hua Hu

14h-14h30 From predictive to decision-making digital twins for industrial applications
Élie Hachem, Mines Paris – PSL and Director of CEMEF

14h30-15h Project Engineering
David Cameron, University of Oslo

15h-15h30 How could AI accelerate the transition to more sustainable chemical products?
Guy-Noël Sauvion, Former Fellow at Solvay

15h30-15h40 Break

Session Materials

Chair: Valérie Lucas, Groupe Dehon

15h40-16h00 AI for materials innovation within process industries
Laurianne Moity, Syensqo

16h00-16h20 Managing the ML Lifecycle in Industrial Control: Lessons from Integrating Research, Validation, and Deployment
Bogdan Penkovsky, Alysophil

16h20-16h40 From Experiments to Data-Driven Polymer Design: Machine Learning Across Scales
Khalid Ferji, LRGP - Université de Lorraine

16h40-16h55 Machine Learning Driven Optimization of Ring-Opening Polymerization in Flow
Glenn Clothier, LCPO

16h55-17h05 Questions

17h05-17h15 Break

Round Table

Chair: Guy-Noël Sauvion

17h15-17h45 How AI will Change the Role of Process Engineers
Yvon Gervaise, Laurianne Moity, Guo-Hua Hu, Sébastien Preys, Valérie Lucas

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Day 2 – June 12 2026

Session Opening

9h-9h10 Jean-Pierre Dal Pont, Tristan Cazenave

Session Operations

Chair: Nicolas Roques

9h10-9h40 AI & Chemistry: Opportunities and Challenges in a Context of Global Competition
Hélène Moumrikoff, France Chimie

9h40-10h10 Hutchinson Company Strategy

10h10-10h40 Our journey from MANUfacturing to SMARTfacturing - Miss the shift, miss the future!
Michelangelo Canzoneri, Merck

10h40-10h50 break

10h50-11h10 Real-Time Industrial Wastewater Quality Prediction Using AI/ML: Operational Results and Lessons Learned
Michael Kuhns, Liquisens BV

11h10-11h30 From AI to industrial performance: Why adoption, not algorithms, sets the limits

William Guerin, ADM Animal Nutrition

11h30-11h40 Questions

Session AI and Process Control

Chair: Nicolas Roques

11h40-12h00 Distributed intelligence in an embodied self-driving analytical laboratory
Pascal Miéville, EPFL Lausanne

12h00-12h15 Continuous Nested Monte Carlo Search and Nested Rollout Policy Adaptation for Chemical Processes Planning
Lotfi Kobrosly, LAMSADE, University Paris Dauphine – PSL

12h15-12h30 Large language models for high-level computer-aided process planning in a distributed manufacturing paradigm
Helge Spieker, Simula Research Laboratory

12h30-12h40 Questions

Lunch Time: 12h40-13h30

Session Process Development and Drug Discovery

Chair: Tristan Cazenave

13h30-14h00 Machine Learning to accelerate RNA structure-based drug design: current challenges and opportunities
Vincent Mallet, CBIO, Mines Paris - PSL, Institut Curie

14h00-14h30 Designing shape and function with DNA molecule at the nanoscale
Gaëtan Bellot, INSERM, France

14h30-15h00 Rethinking Process Development: Data, AI, and Cause–Effect Relationships
Lilivet Ubeira Ruiz, Sanofi

15h00-15h10 break

15h10-15h30 Formulation Prediction of Pharmaceutics Using Machine Learning
Yves Roggo, Novartis

15h30-15h45 Algorithmic Improvements for Multi-Steps Retrosynthesis
Milo Roucairol, ICReDD, Hokudai

15h45-16h00 Monte Carlo Tree Search for Molecule Design
Mehyar Mlaweh, LAMSADE

16h00-16h15 Questions

16h15-16h30 Leveraging self-supervised representations for protein optimization with low sampling budgets
Marcos Bolanos, ESPCI

16h30-16h45 DSMC.2: A Monte Carlo Tree Search-based Search Model for Multi-Objective Drug Design
Yali Lyu, Imperial College London

16h45-17h00 Constructing and explaining machine learning models for the exploration and design of boron-based Lewis acids
Juliette Fenogli, Ecole Normale Supérieure – PSL

17h00-17h15 Questions

Webinar Wrap up

17h15-17h30 Jean-Pierre Dal Pont, Tristan Cazenave, Guy-Noël Sauvion

REGISTRATION ON LINE

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