

# 2018 *FLOW-3D*

## European Users Conference

Tuesday, May 15

- 09:00 Check in & Registration
- 09:30 **Welcome**  
Amir Isfahani, Flow Science
- 09:45 **Accelerating Simulation Workflows through User Interface Design**  
John Ditter, Flow Science
- 10:45 **Additive Manufacturing and Foaming Applications**  
Raed Marwan, Flow Science Japan
- 11:15 Break
- 11:35 **Influence of Floating Debris Racks on Flow Rate at Standard Spillways**  
Grégory Guyot, EDF-CIH
- 12:05 **Complexity & Diversity in Sands & Gravels: A Case Study of Decision Options for Sediment Transport Modelling**  
Kate Bradbrook, JBA Consulting
- 12:35 Lunch
- 13:45 **Simulation-based Development of a Casting Process to Produce Clad Aluminum Strips**  
Stefan Heugenhauer, Österreichisches Gießerei-Institut
- 14:15 **Improvement of Shrinkage Macro-Porosity Prediction Capability**  
Daniele Grassivaro, Form Srl.
- 14:45 **Support of the Design Process for Iron Castings**  
Malte Leonhard, Flow Science Deutschland GmbH
- 15:15 Break
- 15:35 **Spillway Assessment – When is a Splash a Splash?**  
Mary Jeddere-Fisher, Mott MacDonald
- 16:05 **Flow in a Peristaltic Pump: Two-Fluids Approach**  
Julien Bœuf, Roche Diagnostics GmbH
- 16:35 **Extension of *FLOW-3D* with a New Phase Change Model to Simulate Cryogenic Tank Flows**  
Martin Konopka, ArianeGroup GmbH
- 19:00 **Conference Dinner**

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Wednesday, May 16

- 09:00      **Solver Developments: *FLOW-3D* v11.3 and *FLOW-3D* CAST v5.1**  
Michael Barkhudarov, Flow Science
- 10:00      **IMPROVEit, a Modern Optimization Engine for *FLOW-3D***  
Raul Niccolò Pirovano, XC Engineering Srl
- 10:30      **Faster *FLOW-3D* Time-to-Solution with HPC Cloud or on Premise**  
Rod McAllister, Penguin Computing
- 11:00      Break
- 11:30      **Analyzing the Flow of Cement Paste in the FlowCyl**  
Jon Spangenberg, Technical University of Denmark
- 12:00      **A Case Study of Flood Modelling from Tailings Storage Facility Failure**  
Rudolf Faber, Pöyry Energy GmbH
- 12:30      **Hydrodynamic Forces on a High-head Slider Gate**  
Boris Huber, Vienna University of Technology
- 13:00      Lunch
- 14:30      **Definition of a Robust Aluminum HPDC Process by Mean of Virtual Simulation, Design of Experiment and Taguchi Methodology**  
Claudio Mus, Endurance Overseas
- 15:00      **Simulation of Centrifugal Casting Processes for Manufacturing of Compound Work Rolls**  
Martin Liepe, Institute of Manufacturing Technology and Quality Management, Otto-von-Guericke-University Magdeburg
- 15:30      **Feasibility Study on the Simulation of Ultrasonic Treatment of Liquid and Solidifying Aluminium A356**  
Eric Riedel, Institute of Manufacturing Technology and Quality Management, Otto-von-Guericke-University Magdeburg
- 16:00      Break
- 16:20      **Orlik Dam – Protection of the Dam Against Large Floods**  
Tomas Studnicka, AQUATIS
- 16:50      **Open Forum**