

Tuesday, June 6

08:00 **Check in**

GENERAL SESSION – EUROPE

08:30	FLOW-3D global update and direction Dr. Amir Isfahani, Flow Science
09:00	A case study of FLOW-3D with amusement rides Tim Jacobi, Zamperla
09:30	Modelling of freezing and thawing of urea aqueous solution for SCR in automotive emission control Dr. Philippe Georis, Plastic Omnium
10:00	Sinking bubbles – A numerical analysis Dr. Daniel Weiss, FHNW
10:30	Break
11:00	Numerical modeling of bead mixing Dr. Julien Bœuf, Roche Diagnostics GmbH
11:30	FLOW-3D products – Development overview Dr. Michael Barkhudarov, Flow Science
12:30	Lunch
HYDRAULICS WATER TRACK – STRASBOURG	

14:00	Bottom outlets at hydropower dams: challenges in assessing air demand using CFD modelling Pierre-Louis Ligier, SWECO
14:30	Scour of rock by fluid-solid coupling Dr. Erik Bollaert, AquaVision Engineering
15:00	Bridge hydraulics – Can we do better? Applied CFD to inform 2D modelling techniques. The Queensland Department of Transport and Main Roads' approach to designing better bridges Urs Baeumer, Queensland Department for Transport and Main Roads
15:30	Break



16:00	Study of currents and recirculations downstream of an open gated dam Thomas Viard, EDF
16:30	FLOW-3D HYDRO modeling to enhance the design of a combined spillway/high-level outlet works Dr. Frank Lan, AECOM
17:00	Investigation of the different models of Elliptical-Lopac Gate performance under submerged flow conditions Ashkan Pilbala, University of Trento
19:00	Conference Dinner
ADDITIVE M	ANUFACTURING & LASER WELDING TRACK – LE 7
14:00	Multiphysics simulation of the impact of ringspot Gaussian beam shape on the melt pool conditions during the laser powder bed fusion of stainless steel 316 Dr. Mohamad Bayat, Technical University of Denmark
14:30	Thermo-fluid modeling of influence of attenuated laser beam intensity profile on melt pool behavior in laser-assisted powder-based direct energy deposition Mohammad Sattari, University of Twente
15:00	Modelling and simulation of laser welding technologies using FLOW-3D WELD Michael Allan, Manufacturing Technology Centre
15:30	Break
16:00	Towards thermo-fluid model of melt pool dynamics during laser dispersing of ceramic TiB particles Bart Ettema, University of Twente
16:30	A multi-physics CFD study on laser beam shapes to control porosity formation during laser beam welding of aluminium 1060 Qamar Hayat, University of Warwick
17:00	Laser welding of dissimilar materials – Simulation driven optimization of process parameters Dr. Marcin Serdeczny, Flow Science

Conference Dinner

19:00



MUNICIPAL WATER TRACK - BRUSSELS/LUXEMBOURG

14:00	Ferric chloride flocculant tracking in wastewater treatment Steve Saunders, Ibis Group
14:30	Using FLOW-3D HYDRO to improve collection system hydraulic model Bassam Aldhafari, San Francisco Department of Public Works Hydraulic Section
15:00	Optimisation of the operation of the buffer tank of the Seine-Valenton wastewater treatment plant Jean-Baptiste Monge, PROLOG INGENIERIE
15:30	Break
16:00	Wastewater vortex drop shaft – 2 fluid modelling with FLOW-3D HYDRO Markus Grünzner, Flow Science Deutschland
16:30	Methods for modeling aeration and dissolved oxygen John Wendelbo, Flow Science
17:00	Roundtable Discussion
19:00	Conference Dinner

Wednesday, June 7

GENERAL SESSION – EUROPE

09:00	FLOW-3D (x): Expand your simulation experience Raul Pirovano, XC Engineering
09:30	Faster postprocessing with FLOW-3D POST Dr. Michael Barkhudarov, Flow Science
10:00	Break

METAL CASTING TRACK - LE 7

10:30	Opportunities and challenges in simulating HPDC MegaCasting parts Elias Schläpfer, IdeeRoth AG
11:00	Die erosion: A case study Boris Baldin, Form Stampi



11:30		Simulation of solidification of gravity sand casting by FLOW-3D CAST Albert An, China Machinery Industrial Products Co., Ltd.
12:OC)	Effective and automated postprocessing using Python scripts – Application examples for FLOW-3D CAST Dr. Matthias Todte, Flow Science Deutschland
12:30		Lunch
14:OC)	An exploration of the optimal gating geometry for investment cast, superalloy aerospace turbine blades using FLOW-3D (x) optimization software Christopher Jones, Cranfield University
14:30		Minimizing air entrainment in an HPDC shot sleeve during slow-shot stage Dr. Michael Barkhudarov, Flow Science
15:00)	Break and Vote
COA	STAL, M	MARITIME & ENVIRONMENTAL TRACK – BRUSSELS/LUXEMBOURG
10:3C)	Study of the vulnerability reduction to extreme floods of the Marne water intake structure of the Marne reservoir lake Gwenaël Chevallet, BRL Ingénierie
11:00		Debris in rivers: How FLOW-3D HYDRO can help with the clean-up Dr. Kate Bradbrook, JBA Consulting
11:30		FLOW-3D HYDRO application to marinas Ignacio Berenguer Pérez, HIDTMA, S.L.
12:00)	Barchan dunes simulation with FLOW-3D HYDRO Aurelien Auzias, TECH-AM
12:30		Lunch
14:00)	A numerical investigation of fish-friendly fine screens by porous-media approach Dr. Serhat Küçükali, Hacettepe University
14:30		Numerical simulations of three-dimensional subaerial landslide generated waves: Comparing FLOW-3D HYDRO and OpenFOAM Ramtin Sabeti, Brunel University
15:00)	Break and Vote



HYDRAULICS WATER TRACK - STRASBOURG

16:00

10:30	Spatial distribution of pressure along a dam flap gate Dr. Vanessa Martin, EDF
11:00	Off stream reservoir inlet structure Dr. Tomas Studnicka, AQUATIS
11:30	Visualization of simulation results in photorealistic 3D models Thorben Frener, Fichtner Water $\boldsymbol{\epsilon}$ Transportation GmbH
12:00	CFD analysis of discharge from fixed-cone valves on proposed outlet work system at a dam Ron Berry, GEI
12:30	Lunch
14:00	CFD modeling of the PSH Porąbka Żar with an additional compensation chamber Bernard Twaróg, Cracov University of Technology
14:30	Roundtable Discussion
15:00	Break and Vote
GENERAL SESSION – EUROPE	
15:30	FLOW-3D products – A look ahead Dr. Michael Barkhudarov, Flow Science

Best presentation award, closing remarks and open forum