Tuesday, June 4

08:30  Check in & Registration

GENERAL SESSION – VENEZIA (JUNE 4)

09:00  Welcome
Amir Isfahani, Flow Science

09:15  FLOW-3D v12.0 – Modernized interface, streamlined workflows and enhanced accuracy
John Wendelbo, Flow Science

09:45  Predicting phase change in cryogenic tanks during sloshing with CFD
Philipp Behruzi (ArianeGroup GmbH)

10:15  Numerical modeling of microfluidics cells
Julien Bœuf (Roche Diagnostics GmbH)

11:00  Break on the Terrace

11:30  New developments for additive manufacturing and laser welding
Raed Marwan (Flow Science Japan)

12:15  Automatic filler pipe design through optimization
Philippe Georis (Plastic Omnium – Clean Energy Systems)

12:45  Lunch in the Gazebo

METAL CASTING TRACK – DIANA (JUNE 4)

14:00  New frontiers in solidification modeling: FLOW-3D CAST v5.1
Michael Barkhudarov (Flow Science)

15:00  The challenge to reduce powertrain components’ weight
Claudio Mus (Endurance Overseas) and Stefano Mascetti (XC Engineering S.r.l.)

15:30  Break on the Terrace

15:50  Simulation of fluid dynamics in cooling channels of ICE pistons using the Non-Inertial Reference Frame motion model
Florian Wirth (Federal Mogul Nuremberg GmbH, A Tenneco Group Company)
16:20  An integrated approach to study the operating variables affecting the fluidity test of Al foundry alloys  
Giulio Timelli (University of Padova)

16:50  Discussion

17:30  Tour of Milan

19:30  Conference Dinner

WATER & ENVIRONMENTAL TRACK – VENEZIA (JUNE 4)

14:00  Study of the outlet structures of the Marne Reservoir  
Gwenaël Chevallet and Eric Vuillermet (BRLi)

14:20  The Vlachovice Dam – pre-project preparation  
Tomas Studnicka and Jan Sehnal (AQUATIS a.s.)

14:40  Storm surge barrier Nieuwpoort, Belgium  
Jeroen Adema (Arcadis Netherlands)

15:00  Numerical modeling of air entrainment in an aeration chamber and pipes  
Pin-Tzu Su (ATE Energy International)

15:20  Break on the Terrace

15:40  Generating performance curves for sharp crested gates on the Zambezi  
Gillian Murphy (Mott MacDonald)

16:00  Flow velocities within Pont des Chèvres transfer work: Comparison between FLOW-3D model and site measurements  
Anaïs Faivre (EDF-CIH)

16:20  Numerical modelling of a two-degree-of-freedom Wave Energy Converter: Creation, validation and utilization of the model  
Eliseo Marchesi (Politecnico di Milano/Studio Frosio S.r.l.)

17:30  Tour of Milan

19:30  Conference Dinner
Wednesday, June 5

METAL CASTING TRACK – DIANA (JUNE 5)

09:00  A realistic model for exothermic feeders for gravity casting  
       Malte Leonhard (Flow Science Deutschland GmbH)

09:30  Structural analysis of stress and deformation of a large foundry mould  
       for gravity die casting process  
       Gabriele Taricco (CM Taricco)

10:00  Casting die optimization by mean of IMPROVEit  
       Daniele Grassivaro (FORM S.r.l.)

10:30  Break on the Terrace

10:50  Results and validation in simulation of ultrasonic treatment of aluminum A356  
       Eric Riedel (Otto-von-Guericke-University Magdeburg)

11:20  Making Leonardo da Vinci’s “Colossal Horse”  
       Andrea Bernardoni (Università di Siena, Instituto e Museo di Storia della Scienza, Firenze Artes Mechanicae)

11:50  Discussion

12:00  Lunch in the Gazebo

WATER & ENVIRONMENTAL TRACK – VENEZIA (JUNE 5)

09:00  Using FLOW-3D to evaluate mixing performance and hydraulic efficiency in a contact basin  
       Steve Saunders (Ibis Group)

09:20  Fish pass on the Revúca River  
       Jakub Kedrovič (Vodotika, a.s.)

09:40  Reconstructing da Vinci’s Dam Valley  
       Emanuele Andalo (Protesa S.p.A.)

10:00  Physical and numerical modelling of flow at tunnel spillway intake  
       Vincent Gizard (EDF-CIH)

10:20  Break on the Terrace
10:40  Numerical investigation of Aşağı Kalekö spillway using FLOW-3D
Mete Koken (Middle East Technical University)

11:00  Turbidite forward modelling in FLOW-3D for geological simulations
C. Barbieri (Eni Upstream and Technical Services)

11:20  Detection and control of pollutants in wall-bounded flow systems
Nikolaos Katopodes (University of Michigan)

11:40  Discussion

12:00  Lunch – Gazebo

GENERAL SESSION – VENEZIA (JUNE 5)

13:30  A peek into FLOW-3D future developments
Michael Barkhudarov (Flow Science, Inc.)

14:00  Optimizing automotive tank filling simulations with FLOW-3D using DFSS
Francesco Fortunato (FCA)

14:30  Modelling of upper stage cold gas reaction control propulsion systems
Francesco De Rose (ArianeGroup GmbH)

15:00  Approaches in modeling large-scale granular media flows with FLOW-3D
Donato Rubinetti (University of Applied Sciences and Arts Northwestern Switzerland)

15:30  Toilet Flushing
Valentina Virgilli (Protesa S.p.A.)

16:00  The importance of valve dynamics in the lymphangion fluid-dynamic:
A CFD investigation
Nicholas Mattia Marazzi (University of Missouri)

16:15  Modeling of a printing head
Shmuel Olek (J-ROM Ltd.)

16:30  Break on the Terrace

16:45  Best Presentation Awards and Open Forum