

# 2017

**FLOW-3D** Americas Users Conference  
September 20-21, 2017  
Santa Fe, NM

**WEDNESDAY, SEPTEMBER 20**

**8:00 – 9:00**

**BREAKFAST AND CHECK-IN**

**9:00 – 9:15**

**WELCOME**

**9:15 – 10:15**

**KEYNOTE ADDRESS**

**Multiphysics CFD: Challenges and Applications**

**Edward Furlani, University at Buffalo, SUNY**

**10:15 – 10:35**

**BREAK**

**10:35 – 11:35**

**DEVELOPMENT TALK**

**FLOW-3D Solver Developments**

**Michael Barkhudarov, Flow Science**

**11:35 – 12:15**

**INVITED SPEAKER**

**Numerical Simulation of Air Entrainment and Transport in Low-Froude-Number Hydraulic Jumps**

**Fabian Bombardelli, UC Davis**

**12:15 – 1:45**

**LUNCH, AMAYA**

**1:45 – 2:45**

**DISTINGUISHED SPEAKER**

**Going Against the Grain**

**Dr. Tony Hirt, Flow Science Founder and Developer *Emeritus***

**2:45 – 3:45**

**DEVELOPMENT TALK**

**User Interface Engineering**

**John Ditter, Flow Science**

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3:45 – 4:00  
**BREAK**

4:00 – 4:30

**Computational Analysis of Pinch-off Dynamics and Printability of Simple and Complex Fluids**  
Vivek Sharma, University of Illinois at Chicago

**OPEN DISCUSSION**

**CONFERENCE DINNER AT THE COWGIRL  
DRINKS AND APPETIZERS AT 6:30; DINNER AT 7:00 (DIRECTIONS IN YOUR FOLDER)**

**THURSDAY, SEPTEMBER 21**

8:00 – 9:00  
**BREAKFAST**

9:00 – 9:15

**OPENING REMARKS**

Amir Isfahani, Flow Science

9:15 – 9:45

**Two Fluid Modelling of a Spillway Flow**  
Stéphanie Thériault, Hydro Quebec

9:45 – 10:15

**Levelling System New Shipping Lock IJmuiden, the Netherlands**  
Randy Lagumbay, Arcadis-US

10:15 – 10:35  
**BREAK**

10:35 – 10:55

**Making a Wave in Idaho**  
Bruce Savage, Idaho State University

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**10:55 – 11:30**

**Boundary Dam - Total Dissolved Gas Analysis**  
Nikou Jalayeri, Hatch

**11:30 – 12:00**

**Stratified Environmental Flows Interacting with Obstacles**  
Jian Zhou, Colorado State University

**12:00 – 1:30**

**LUNCH, AMAYA**

**1:30 – 2:00**

**Advanced Research: Additive Manufacturing**  
John Wendelbo, Flow Science

**2:00 – 2:30**

**Optofluidics: Modeling  $L^2$  lens**  
Adwaith Gupta, Flow Science

**2:30 – 3:15**

**Flow Science: State-of-the-Art Cloud Computing**  
Gandharv Kashinath, Flow Science and Will Cottay, Penguin Computing

**3:15 – 3:30**

**BREAK**

**3:30 – 3:45**

**BEST PRESENTATION AWARD**

**OPEN FORUM**

**Customer Feedback, Development Requests and Technical Discussion**