

YWP Workshop
*ICA today: exploring advances, challenges and synergies
from multiple perspectives*

Saturday, June 10th, 8:30-17:00
Laval University, Pavillon Desjardins – Le cercle

- 8:45 – 9:15** **Welcome and ice breaker**
- 9:15 – 10:00** **Keynote:** “Instrumentation, Control and Automation in the Global Water Industry: trends and challenges”
Eveline Volcke, Ghent University, Chair of the IWA specialist group on ICA
- 10:00 - 10:30** **Coffee break**
- 10:30 – 12:15** **Discussion sessions:** “Emerging challenges and technologies in ICA domain”
- 10:30 – 10:35** **Introduction**
 10:35 – 11:25 **Session 1 (topic choice 1)**
 11:25 – 12:15 **Session 2 (topic choice 2)**
- Topic 1: *Sensors and instrumentation - Thomas Maere and Cyril Garneau, Laval University*
 Topic 2: *Data Treatment - Janelcy Alferes, Suez Environment*
 Topic 3: *Machine Learning - Stephanie Klaus and Ali Gagnon, Hampton Roads Sanitation District*
 Topic 4: *University of Laval Pilot Plant Visit*
- 12:15 – 13:45** **Lunch**
- 13:45– 15:30** **ICA Case-studies**
Participants work together in small groups to find solutions to one out of three different case-studies.
- 13:45 – 14:00** **Introduction**
 14:00 – 15:00 **Discussion**
 15:00 – 15:30 **Wrap-up**
- Case Study 1: *Reducing Non-Revenue Water Loss*
 Facilitator: *Ken Thompson, CH2M*
- Case Study 2: *Energy Reduction at a WRRF*
 Facilitator: *Lina Belia, Primodal*
- Case Study 3: *BNR Stability at a WRRF*
 Facilitator: *Adrienne Menniti, Clean Water Services*
- 15:30-16:00** **Coffee**
- 16:00-17:00** **Expert panel: Opportunities and Outlooks in ICA** (questions prepared by YWPs)
(Lina Belia – Primodal, Adrienne Menniti – Clean Water Services, Gustaf Olsson – Lund University, Rob Smith - YSI, Ken Thompson - CH2