

2018 ISA Water/Wastewater and Automatic Controls Symposium

August 7 to 9, 2018 • Hyatt Regency Bethesda • Bethesda, Maryland, USA

Presented by the ISA Water/Wastewater Industries Division – www.isawwsymposium.com

Technical co-sponsors: Chesapeake AWWA Section, the WEF Intelligent Water Technology Committee, Chesapeake Water Environment Association, and ISA Baltimore-Washington Section



August 6, 2018 – Optional Short Course

Overview of Electrical Noise Effects on Instrumentation Control Equipment

ISA Course TI21C

Course Description

Length: 1 day

Date: Tue, August 6, 2018

CEU Credits: 0.7

Course Hours: 8:00 a.m. – 4:00 p.m., includes lunch

Price: \$650 for ISA members, \$730 for affiliates, \$815 list & community members

Course Schedule

DAY	Topics, Exercises, Etc.
A.M.	Course Introductions Pre Instructional Survey Section 1: Definitions Demonstration 1 Magnetic Lines Surround Us Section 2: Electrical Noise VS Safety Lab Exercise 1 Body Resistance Section 3: Anatomy of Electrical Noise Section 4: Power Source Grounding Section 5: Ground Loops Lab Exercise 2: Temperature Loop Problems
P.M.	Section 6: Hazardous Area Grounding Section 7: Radiated Electrical Noise Section 8: Interference (Noise) Control Section 9: Power Quality Video – Fluke Power Quality Video – Fluke Harmonics Optional Lab 3 Post Instructional Survey Final Course Evaluation