

JUNE
26-29 CINCINNATI

Technical Conference & Expo ROLLIN' DOWN THE RIVER



2017 Operations Challenge Invitational | Monday, June 26

The Ohio Water Environment Association is proud to announce they will host an Operations Challenge Competition and National Invitational as part of the 2017 Technical Conference and Exhibition.



**\$50 Team Registration
(up to 5 people) includes:**

**Monday Morning - Continental Breakfast
Monday Lunch
Monday Night - Welcome Social at Hyatt Regency
Tuesday's Awards Breakfast
Tuesday's Meet & Greet at The Freedom Center**

Registration and details at ohiowea.org

Process Control Event

This event consists of a written test and computerized process simulator meant to evaluate an operator's knowledge of WRRF process control. The written test is made up of four main sections: short math, multiple choice, extended multiple choice and longer process scenario questions. Point values range from 10 for multiple choice to 200 for the process control scenarios in the written portion. The process simulator will be run by each team on a laptop that will be provided. The process simulation software is provided by Hydromantis and will be the same for each team. Each scenario lists a set of goals and points are awarded for the number of goals achieved.

Laboratory Event

All week long your ammonia levels have been creeping up at the plant effluent... the laboratory tech is on vacation and you have to get to the bottom of this before the boss gets involved. The purpose of this event is to familiarize teams with the definition and concept of alkalinity and how it impacts plant operations. Team members will be required to run straight and diluted samples of influent ammonia and alkalinity to determine basic alkalinity needs of the treatment plant based on these values. Calculations will be performed to determine if there is adequate alkalinity to complete nitrification or if supplemental alkalinity would be needed. Bench sheets will need to be completed properly in addition to proper performance of such techniques as measuring with graduated cylinders, pipetting and analysis of pH, alkalinity and ammonia using instruments provided.

Some Ops Challenge events will take place during the Monday Welcome Social

Safety Event

While your WRRF facility crew is working, one of the workers collapses in the bottom of a confined space lift station. It is suspected that he/she has been overcome with an unknown gas or lack of oxygen due to a worn 4" check valve gasket in the station. The in-plant rescue / repair team is immediately called to the scene. Two members of the team will enter the confined space, rescue the downed worker and repair the check valve. Two gate valves will be closed and locked out/ tagged out by the entrants, the check valve flapper and gasket will be replaced and the line put back into service. Tools and equipment will be lowered to them by the attendants and all proper confined space entry protocols will be followed during the rescue and repair completing just another day in the life of a WRRF operator!

Collection Systems Event

How long do you think it would take you to cut through an 8" SDR-35 pipe with a hand saw? No battery powered Sawzall® here. 30 seconds...how about 45 seconds? Unless you can be around 20, don't even try. The object of the Collections Event is to cut out a 1' – 2' section of broken sewer line from a six foot long pipe, replace it with another unbroken section using two Ferncos®, and install a new saddle connection on the fresh pipe. You have four team members: who cuts what, and when? Choreographed chaos is the best way to describe the event. Complete the whole thing in less than two minutes and you might just be fast enough to be the winners.

Maintenance Event

Weather in Ohio is always changing, wait an hour it will go from winter to summer. Imagine a summer thunderstorm. A lightning strike has knocked out the power and fried the control panel at a remote lift station. It is time to mobilize your trailer mounted engine and pump set. Before you can take the trailer out, you have to be sure it will work. Your team must perform maintenance on the trailer, engine, and pump. Check the tires, change the filters, vacuum test the pump – just a sample of the tasks to be completed. Wheel the trailer over to the model wet well, then attach the suction and discharge hoses, program the engine and pump control unit, and away it goes. Remember move quickly ... the Mayor's house is the first lateral up from the lift station!



**Ops Challenge Awards will be presented on
Tuesday at the Exhibitor Reception.**