



# Doing More With Less

AL/MS AWWA's Education Seminar Series

Join us live or via simulcast webinar for:

## Session 4: Water Treatment and Distribution

### Live Location:

Montgomery Water Works and Sanitary Sewer Board  
Conference Room  
22 Bibb Street  
Montgomery, AL 36014

**When:** Thursday, August 26, 2010

**Time:** 11:30am-1:00pm Central Time

### NOTE:

**You will be receiving a registration email within the next few days. You may register for (1) the Live Location above OR (2) the Simulcast Online Webinar.**

More than ever, the water industry is charged with stretching resources to meet growing challenges. This year's educational seminar series focuses on efficiency innovations and best practices developed by water utilities across Alabama. In four 1.5 hour sessions, some of Alabama's top utility leaders will be sharing their experiences and expertise.

The seminars will be held live this summer in Huntsville, Birmingham, Montgomery, and Mobile. In keeping with our theme, sessions will also be simulcast as online webinars for those who cannot travel to the live location. PDHs and CEUs will be available for both live and webinar attendees. Lunch will be provided for the live audience. Admission is free for AWWA members and \$10 for non-members. The webinar version is free.

Can't attend one of the four live sessions? The recorded sessions will be available on the AL/MS AWWA website. Keep an eye on the [AL/MS AWWA website](#) for program and registration information in the coming weeks or contact us at [jcarter@pirnie.com](mailto:jcarter@pirnie.com)

### Evaluating PAC and ClO2 Usage for Disinfection By-product Reduction at CT Perry WTP

By Brian Shelton, P.E.

Montgomery Water Works and CH2M HILL developed a testing plan and began an evaluation of PAC and ClO2 dosing strategies. The evaluation focused on modifying existing treatment processes to optimize removal of DBP precursors, primarily total organic carbon, and reduction of DBP formation in the finished water from the Perry WTP. The testing plan included a series of full-scale and bench-scale tests to evaluate TOC removal and DBP formation potential by varying the powdered activated carbon and chlorine dioxide feed rates and locations.



Brian Shelton, P.E.  
Senior Engineer  
Montgomery Water Works and Sanitary Sewer Board

Brian Shelton is a Senior Engineer for the Montgomery Water Works and Sanitary Sewer Board. He is involved with projects involving design, construction, and maintenance of pipelines and treatment plants, and provides engineering assistance to the Board's water treatment operations. He is an Auburn University Civil Engineering graduate.

### Water Storage Tank Monitoring, Sampling, and Fluctuation: Improving Water Quality and Reducing Disinfectant By-products (DBP's)

By Jason A. Heberling

Utilities utilize different ways of monitoring tank water quality. Through tank monitoring, using correct sampling techniques, water quality can be improved. Water quality can also be improved through tank fluctuations and the addition of tank mixing devices. Examples of changes that can be made to improve tank water quality and their benefits will be discussed.



Jason Heberling  
Engineer  
Birmingham Water Works Board

Jason A Heberling has been working as an engineer for the Birmingham Water Works Board, Birmingham, Alabama for five years. He is currently pursuing a Ph. D. in Civil Engineering at the University of Alabama at Birmingham (UAB) where he received a Masters degree, also in Civil Engineering. He was awarded a Bachelors degree in Geology at the University of Alabama (main campus in Tuscaloosa, Alabama).