

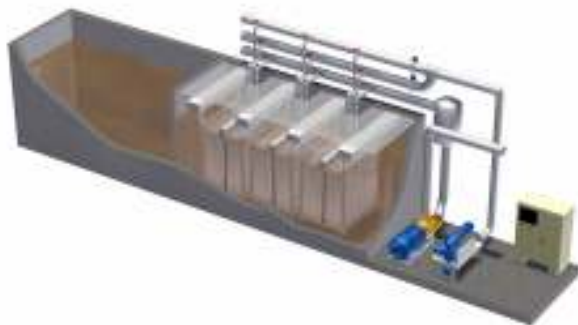
FOX Engineer Presents on Membrane Treatment Processes at AWWA/IWPCA Spring Short Course

Steve Troyer, P.E.

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At the AWWA/IWPCA Spring Short Course for Water & Wastewater Operators in April, Steve Troyer, a project manager with FOX Engineering, gave two presentations on membrane treatment processes for water and wastewater.

Steve, along with Roy Ney from the Iowa Department of Natural Resources, presented on Membrane Piloting for Water Treatment. Before implementing membrane filtration in a full-scale treatment plant, a pilot study is required to verify design criteria, demonstrate operations, and satisfy regulatory requirements. Steve discussed aspects of planning for a membrane pilot study and developing a pilot study protocol. Steve also discussed membrane pilot operations, relating to the pilot study FOX conducted in cooperation with Creston Water Works at the Twelve Mile Water Treatment Plant.



On the wastewater side, Steve presented on a membrane bioreactor (MBR) project for the City of North Liberty. The project involved converting an existing sequencing batch reactor to the MBR process. A membrane bioreactor is an advanced wastewater treatment process that combines membranes with biological treatment to produce very high quality effluent. FOX recently completed the design for North Liberty, which is the first membrane bioreactor in the state of Iowa. Construction for the project is just getting underway.

FOX Engineering is an environmental engineering firm based in Ames, Iowa. FOX specializes in water, wastewater, and solid waste management solutions for its diverse governmental and industrial clients. The firm's environmental projects vary in size and scope and can be found throughout the Midwest and beyond. Steve Troyer can be reached at 800/433-3469 or sjt@foxeng.com