

Nineteen members and sixteen guests heard Dr. Stolz of Duquesne University talk on the Environmental Impact of Shale Gas Extraction. Some of the environmental impacts listed were as follows: the enormous amount of water needed for fracturing, loss of land usage where parks are no longer "public," degradation of water quality in the Mon, Allegheny, and Ohio Rivers, exposure to toxic chemicals, traffic and road degradation, noise from heavy equipment and compressions.

The following article published in the Tribune Chronicle, Warren, OH, on Friday, January 7, 2011 may also be of interest.

## **Firm profits from drilling**

### **Wastewater trucked to Warren**

January 7, 2011  
Tribune Chronicle

WARREN - A new company in Warren Commerce Park already is benefiting from natural gas drilling in the Marcellus Shale, according to a published report.

Wastewater from drilling in Otswego County in central New York state is being trucked to Patriot Water Treatment System off North River Road, according to the Watertown Daily Times.

The newspaper reported that Gastem, a natural gas company in Quebec, Canada, shipped the water to Warren because it took less time to get approval than with New York state.

Patriot, which is ramping up treatment of brine water from natural gas drilling, is permitted by the Ohio EPA to accept 100,000 gallons per month.

The company pretreats the water to remove heavy solids, salt and other pollutants before sending the water to Warren's waste water treatment plant for final treatment and discharge into the Mahoning River.

"Companies are showing an interest in Warren, and that's a good thing," said Tom Angelo, Warren Water Pollution Control director.

The Ohio Environmental Protection Agency issued a proposed permit modification last year for the city's Water Pollution Control Department to be the first in the state to process wastewater generated from hydraulic fracturing of Marcellus Shale deposits in Pennsylvania and Ohio.

In November 2009, the Ohio EPA agreed to allow Warren to do an eight-week pilot study to determine if it is feasible to treat more wastewater from gas and oil wells at the city's plant. The pilot study began in late January and ended the first week of April, Angelo has said.

The study looked at how much brine water the treatment plant could accept and process without damaging the equipment or significantly increasing the level of salt flowing in the Mahoning River.

Efforts to contact Patriot Thursday were unsuccessful.

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