

# The Environmental Impacts of Shale Gas Extraction

February 18, 2011 at 7 PM  
Youngstown State University  
Ward Beecher Hall, room 6030

(Please park in the Wick parking deck.)

Presented by

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## Biographical Information

Dr. Stolz is an environmental microbiologist and microbial ecologist, with expertise in microbial metal and metalloid transformation. He focuses on anaerobic microbes that thrive in extreme environments in the presence of high concentrations of metals. Dr. Stolz has an extensive publication record on the microbial metabolism and biogeochemistry of arsenic with additional research on the effect of chromium, tellurium, iron, nitrate and selenium.

More recently, Dr. Stolz has been investigating shale gas extraction and has visited completed well sites, waste water treatment plants taking flow back water, and a liquids separation facility. In addition he has conducted ground and aerial surveillance and documentation, as well as conducted interviews with affected land owners with water issues. A current research project is to provide baseline information on the microbial, salamander, and fish populations in the Tenmile Creek watershed prior to shale gas extraction. This is part of a collaborative effort with the University of Pittsburgh and Carnegie Mellon University.

Dr. Stolz is a full professor in the Department of Biological Sciences and the Director of the Center for Environmental Research and Education at Duquesne University. He has over 100 scholarly publications and has been funded by grants from NSF, DOE, EPA, and NIH.