

Title: *Hydrogeophysical investigations at the former Bannister Federal Complex, Kansas City, Missouri*

Description: *Geophysics has been used extensively to aid groundwater investigations. Common examples include imaging buried channels, locating groundwater seeps around dams, and salt-water intrusion mapping. Advancements in computer processing power and geophysical imaging techniques have led to new methods and potential applications. This presentation will focus on the successful use of high-resolution imaging of the water table and other subtle hydrogeophysical signatures to identify hydraulically conductive zones critical to groundwater capture at the 320-acre Bannister Federal Complex.*

Short Bio:

Benjamin Petersen, P.G., is a geophysicist for S.S. Papadopoulos & Associates in Kansas City, Missouri. He received a B.S. in Mathematics and Physics from Buena Vista University and a M.Sc. from Iowa State University in Geology, focusing on Geophysics. He has worked in consulting for the last 10 years, applying geophysics to geotechnical, hydrogeologic, and environmental problems. Since 2018, he has focused on the demolition and redevelopment of the former Bannister Federal Complex in Kansas City, Missouri, performing geophysical surveying as well as geologic investigations and implementing environmental corrective actions.