

## Day Two - Track Two

Thursday, March 22<sup>nd</sup>, 2018

9:00 a.m. – 9:30 a.m.

## Restoration of Urban Streams in the Midwest: Concepts and Applied Practices

**Presenter:** Jonathan Koepke, ENCAP

### Biography



Jonathan Koepke is the Vice President and General Manager for ENCAP, Inc. and has been with ENCAP, Inc. since 2006. Prior to coming to ENCAP, Jonathan was the Resource Conservationist at the Kane-DuPage Soil & Water Conservation District. While at the KDSWCD for 5 years, he performed erosion control plan review and site inspection for compliance with US Army Corps of Engineers, IEPA, and Municipal erosion and sediment control regulations. Jonathan is a three time graduate of Northern Illinois University where he completed both his Bachelors and Masters degrees and holds a Masters in Business Administration. His areas of expertise and interest include streambank stabilization and restoration techniques, Polyacrylamide use for erosion and sediment control, and revegetative techniques on construction sites. He is also the current President of the Great Lakes Chapter of the International Erosion Control Association (IECA).

## Abstract

This presentation will outline some of the root causes of stream degradation in the upper Midwest, as well as the concepts and theories behind the analysis, design, and implementation of restoration practices utilized to restore and stabilize streams. Traditional engineering methods of stabilizing stream banks will be reviewed and contrasted with more modern bioengineering practices and the development of natural channel design for stream and riparian restoration.

## Learning Objectives

1. Understand basic geomorphic processes;
2. Connect changes in watershed dynamics and how they affect streams; and
3. Identify basic stream impacts and restoration strategies to treat these stream reaches.