



68th Annual Engineers Week Awards Banquet & Exhibition Tuesday, February 19, 2019

4 Educational Sessions (2:00 – 5:00 pm, 3 PDHs)

1. Incorporating Sustainability in Remedial Construction at the Elizabeth Mine Superfund Site

Presenter

Brett Kay is a Civil Engineer and Project Manager at Nobis Group in Concord, NH.

Project Abstract

The Elizabeth Mine Superfund Site is one of the largest and most intact historic mining sites in New England. Prior to the cleanup action, acid rock drainage and dissolved metals discharges from tailings and waste rock caused severe ecological impacts to downstream streams and rivers. From 2010 through 2018, Nobis performed remedial construction activities at the Elizabeth Mine Superfund Site for the U.S. Environmental Protection Agency under contract to the United States Army Corps of Engineers New England District.

2. Tuscan Village Development

Presenters

Mark Gross, P.E. is a principal owner of MHF Design Consultants, Inc.

Daniel Hudson, P.E. is the Director of Engineering for the Town of Salem, NH.

Project Abstract:

Tuscan Village is a planned 170-acre mixed use development on the former Rockingham Park property in Salem, NH. The project consists of over 2,800,000 square-feet of development, including retail, restaurants, hotels, residential units, and office space. The project will be transformational to the Town of Salem, as well as the southern New Hampshire region. The planning, engineering, permitting, and construction of the project presents unique challenges, overcome by an extensive team of professionals and public-private partner.

3. Merrimack County Superior Court Building, a Public Private Partnership

Presenters

Frank Lemay, P.E. is the president and founder of Milestone Engineering & Construction.

Christopher Carley is founder of C.N. Carley Associates, Architects and Planners.

Project Abstract:

The talk will present the process by which New Court, LLC, the State of New Hampshire, and Merrimack County worked together in a Public Private Partnership to develop, design and construct the new Merrimack County Superior Court on the site of the existing court house. The presentation will outline the process from concept, through the hurdles to accept the concept, the design, and the construction of an existing site with an active court house.



NEW HAMPSHIRE SOCIETY OF
PROFESSIONAL ENGINEERS



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4. Climate Change, Flooding, and Bridge Failure in Mozambique

Presenter Bio

Kyle P. Kwiatkowski, PhD is an Assistant Professor in the Civil and Environmental Engineering Department at University of New Hampshire.

Project Abstract:

Flooding can lead to the collapse of roadways and bridges, causing fatalities, asset damage, and economic losses. Precipitation and flooding conditions are predicted to change in the future, which will increase the overall risk and consequence. This project uses the National Road Administration (ANE) of Mozambique to illustrate a risk-based approach to quantify and compare flood risk to a bridge network considering current and future climate.