



Michigan Tech



Senior Design Colloquium Civil and Environmental Engineering Department

December 11 & 13, 2018

Presentations will be in the Memorial Union Building

The Civil and Environmental Engineering Department is pleased to invite the University community to attend the fall 2018 senior design team presentations. This semester students have undertaken a wide range of interesting projects to fulfill the Department's design project requirement. Refreshments will be served.

Tuesday, December 11

8:00 AM—10:00 AM (MUB A1)

Replacement of Sabin and Davis Locks in Sault Ste. Marie, Michigan

Advisors: Mike Drewyor, Jim Morrison (COWI NA), US Army Corps of Engineers (USACE)

North Wall Engineering Services

Upgrade Design for Existing North Lock Wall

Cade MacArthur (PM), Hannah Akey, Kamilla Yesmukhanova, Brandon VanWert



LARC Engineering

New Center Wall Design (South Wall of Lock)

Cody Baumann (PM), Luke Esposito, Anna Meese, Ryan Beering

Hydrotech, Inc.

Filling System Design

Emma Reilly (PM), Kyle Lehto, Jake Bouman, Danny Hansen



JAGT Engineering

Lock Closure Structures and Ship Retention Structures

Grant Beatus (PM), Jake Munie, Tyler Jacqmain, Andy Sheppard

8:00 AM—10:00 AM (MUB A2)

Isle Royale Infrastructure Improvements Rock Harbor, MI

Advisor: Dave Hand



LSM Connections

Electrical Distribution System Upgrade

Kalvin Lentz, Sarah Jo Martens, Mike Stepnak



SBB Engineering

Motorized Road Design

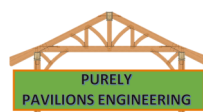
Jacob Burch, Alex Baker, Kaitlyn Sterling



Outdoor Engineering

Disability Compliance

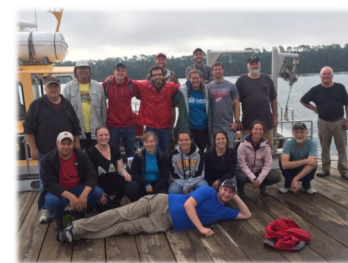
Ellen Aiken, Abi Raetz



Purely Pavilions Engineering

Pavilion Design

Chelsea Cedarquist, James Hegel, Kyle Hiltunen, Gwendolyn Nitz



Thursday, December 13

8:00 AM—10:00 AM (MUB B1)

KBIC Sand Point Area Improvements

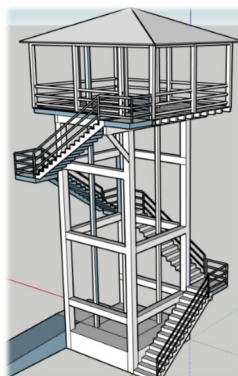
Advisor: Dave Nelson



Superior Views

Sand Point Economical Tower

Tyler Kearly (PM), Kayla Brei, Luke Dowell



CBC Engineering and Co.

Sand Point Robust Tower

Chad Helppi (PM), Brett Daavettila, Carlee Klenotich



JMS Consulting Engineers

Boardwalk and Trail

Maggie Clark (PM), Jakob Janquart, Seth Malcolm



GRAM Environmental Solutions

Soils, Foundations, and Permitting

Robert Watt (PM), Gregory Schultz, Matthew Smiley, Alexander Ware

8:00 AM—10:00 AM (MUB B2)

International Senior Design—Panama

Advisors: Dr. Dave Watkins and Mike Drewyor

PanaMac Engineering

Rio Tabasara River Crossing—Pedestrian Suspension Bridge

Erin Lau, Anthony Jaska, Nathan Priest, Ryan Olsen



Lucy Chen, Inc

Quebrada Plantano & Rio Oeste Abajo

Water System Improvements

Christine Wood, Danny Woodall, Jacob Herzog, Melody Harmon

