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 Exposito, Anna Meese, Ryan Bearing

**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)**

KRIC 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 Help (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

**PunanMac 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