



Michigan Tech



# Senior Design Colloquium Civil and Environmental Engineering Department

December 10 & 12, 2019

Presentations will be in Dillman Hall

The Civil and Environmental Engineering Department is pleased to invite the University community to attend the fall 2019 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 10

8:00 AM–10:00 AM (Dillman 214)

### International Senior Design—Panama

Advisors – Dave Watkins, PhD, PE and Mike Drewyor, PLS, PE

#### Sultan Consultants

#### Valle Risco Gravity-Fed Water System

Sam Kiluk (PM),  
Camille Carlson, Ceily Fessel Doan



#### KSG WaterWays

#### Water Distribution Project:

**La Peñita, Panamá**  
Kendall Welling (PM),  
Samantha Cepeda, Grace Kluchka

#### KRV Water Solutions, Inc.

#### Emberá Puru Water Supply and Distribution System

Victoria Quinde (PM),  
Kelsey Fournier, Ross Hogan



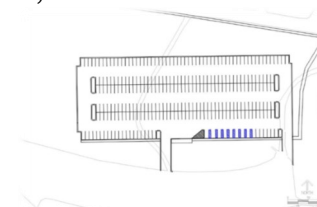
### MTU Facilities Management Proposed Parking Lot, Retaining Wall, and Detention Project

Advisor – Melanie Kueber Watkins, PhD, PE

#### EMC Engineering

#### MTU Facilities Management Structures and Parking

Cole Schilling (PM), Mario Dos Santos,  
Evan Gornick



#### Keweenaw Water Services

#### MTU Facilities Management Detention/Wetland Mitigation

Tyler Wittmann (PM),  
Abby Kanasty,  
Courtney Kosters,  
Emma Wright



## Thursday, December 12

8:00 AM–10:00 AM (Dillman 214)

### I94/US 31 Interchange & I94 Reconstruction

Advisor – Mike Drewyor, PLS, PE

#### Very Good Bridges

#### Bridges

Morgan Green (PM), Travis Pietala, Brad Park, Jon Marino

#### CJK Engineering

#### Roadway Design

Kate Dorman (PM), Jason Lindbeck, Conner Reed

#### HJS Engineering

#### Maintenance of Traffic/Signage

Adeline Hummel (PM), Samantha Schultz, Garion Johnson

#### Rain Guardians

#### Drainage

Kolten Phillips (PM), Jack Krueger, Pete Szpachler

#### Superior Environmental Services

#### Wetlands/SESC

Devin Slavik (PM), Benjamin Mohrhardt, Jason Mihovilovich



8:00 AM–10:00 AM (Dillman 202)

### Reconstruction of US-41 from south (east) of MacInnes Drive to Isle Royale St in the City of Houghton (MDOT)

Advisor – Melanie Kueber Watkins, PhD, PE

#### Type III Traffic Solutions

#### Traffic & Safety Engineering and Design

Luke Mattson (PM), Ethan Knake, Jason Matthews

#### TS Construction Co.

#### MDOT Road Design

Charlie Hill (PM), David Goschka, Michelle Hart, Jake Peterson

#### Stormwater Solutions Engineering

#### MDOT Drainage and Storm Sewer Design

Samantha Hindle (PM), Sophie Stienbrueck, Emma Witherspoon

#### Proposed Conditions

