



Michigan Tech

Senior Design Colloquium Civil and Environmental Engineering Department

December 12 & 14, 2017

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 2017 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 12

8:00 AM—10:00 AM (MUB A1)

Prickett Dam (Sturgeon River) - Dam Stability Analysis and Potential Additional Hydropower Generation for Upper Peninsula Power Company and ILF Consultants (Alston, MI)

Advisors: Mike Drewyor, Virgil Schlorke (UPPCO) & Jim Morrison (ILF)

True North Engineering

East Wing Wall Stability Analysis and Remediation

Anne Porter (PM), Mike Su, Cam Place, Dani Vogt

Triangle Engineering

Hydrology Study and Potential Hydropower Analysis

Jacob Pieti (PM), Stephen Comperchino, Shihao Chen

GMS Consulting

Penstock Analysis and Design

Trevor Stevens (PM),

Kyle Gallant, Nathan Miller

Long Engineering

Proposed Turbine/Generator Building Design and Overall Site Logistics

Caleb Dann (PM), Rob Herrick,

Yi Liu



8:00 AM—10:00 AM (MUB A2)

Manistique Transportation Improvements

Advisor: Dave Nelson

Joint Venture—KSC (8:15-8:25)

Manistique Transportation Improvements

Nick Glass (PM)

Keweenaw Engineering & Consultants (8:30-8:55)

UP Paper Transportation Improvements

Mario Maraccini (PM), Emily Gamm,

Derek Owen, Katie Tigges

Superior Transportation Consultants (9:00-9:25)

Mulch Site Development

Mike Smoter (PM), Devin Jamieson,

Alyssa Leach, Zeyu Yin

Copper Country Consultants (9:30-9:55)

Manistique Industrial Park Transportation Improvements

Brian Kass (PM), Scott Fisher,

Phoebe Glazko, Grace Schroeder



Thursday, December 14

8:00 AM—10:00 AM (MUB B1)

Siskiwit Bay Dock Design (Isle Royale) and Eagle River East Hydrology Project

Advisor: Dr. Dave Hand

Lake Moose LLC

Siskiwit Bay Dock Design

Keagan Fortier (PM), Cooper Abel, Heidi Anderson, Morgan Bolstad, Ryan Kibler, Bailey Ramler



Existing Siskiwit Dock and Breakwall

Enviro10

Eagle River East Hydrology

Aubrey Ficek (PM), Jacob Hedman (PM), Michael Size, Crystal Batdorff, Conner Deur, Maria Carona, Matt Langlais, Kyle Hillstead, Caitlin Korvela, George Austin



8:00 AM—10:00 AM (MUB B2)

International Senior Design—Panama

Advisors: Dr. Dave Watkins and Mike Drewyor

Rö Krobu

Water Supply for Cerro Gallina, Chiriquí

Sasha Drumm (PM), Matthew Adams,

Kira Koboski, Julie Mickle



CYC Environmental Engineering

Water Supply for El Hueco, Coclé

Meredith Brehob (PM), Lou Bassette,

George Meados, Harrison Zost



Better Bridges Engineering

Pedestrian Suspension Bridge over Rio Cabuya at El Hatillo Coclé

Andrew Swanson (PM), Madison Wilson, Edward Nemeč, Isabel Vanderlaan

