The Civil and Environmental Engineering Department is pleased to invite the University community to attend the virtual spring 2021 senior design team presentations. This semester students have undertaken a wide range of projects to fulfill the Department's senior design requirement. Presentations will run from 8 am – 11 am.

- Zoom links are included in the presentation information below -

**MTU Public Transportation System Evaluation and Recommendations**
Due to COVID-19, campus bus capacity has been limited and routes have been combined. Each team independently performed an analysis of the current (combined) transportation routes to determine if they would provide adequate service when we return to pre-COVID ridership numbers. The teams also examined and recommended alternate routes and waiting facility improvements. Air emissions impacts were considered for the various routes.
Instructor: Dr. Michelle Jarvie-Eggart
Zoom: [https://michigantech.zoom.us/j/88905239430](https://michigantech.zoom.us/j/88905239430)

**Dam Projects in the Copper Country**
Instructor: Dr. Stan Vitton
Zoom: [https://michigantech.zoom.us/j/83466511049](https://michigantech.zoom.us/j/83466511049)

**Structural Analysis of the Redridge Dam**
9:30-10 AM
Structural Design Group
Kelton Czyzio, Thomas Hundt, Alec Weitermann

**Analysis of the Calumet Lake Dam, Calumet, MI**
9:30-10 AM
Environmental Group
Maddy Anderla, Brandon Angel, Dava Lakatos, Kate Lawson

**Lake State Railways Alpena Improvements**
Instructor: Mr. Dave Nelson
Zoom: [https://michigantech.zoom.us/j/145639414](https://michigantech.zoom.us/j/145639414)

8-8:15 AM – PROJECT INTRODUCTION
8:15-8:45 AM
Rail Alignment to Decorative Panels International
8:45-9:15 AM
Rail Alignment to Decorative Panels International
9:15-9:45 AM
North Transload Improvements (Grain, Propane, and Ammonium Nitrate)

**Baraga County Road Commission Projects**
9-9:30 AM
Pelkie Rd. over Silver River: Civil/Bridge/Trans/Cons.
BENI Engineering: Erik Oshaben, Joel Schramm, Nicholas Kippelen, Brendan Thompson

9:30-10 AM
Black Creek Rd. over Black Creek: Water Resources & Bridge Design
Keweenaw Bridge and Culvert: Avery Bartlett, Garrett Kraut, Jenna Koenig, Trent Ballor

**Northeast Boundary Tunnel, Washington D.C., Brierley Associates**
Instructor: Dr. Melanie Watkins
Zoom: [https://michigantech.zoom.us/j/85081616652](https://michigantech.zoom.us/j/85081616652)

8-8:30 AM
Support of Excavation & Maintenance of Traffic
DMSS Engineering: Taylor Shane, Alex Spears, John Dunleavy, Steve Moxby

8:30-9 AM
Temporary Site Civil & Environmental
MSMC: Maria Huber, Cooper Ryan, Matthew Sabatini, Sam Genter