

Senior Design Colloquium

April 30, 2021

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>

8-8:30 AM

Very Professional Engineering Business Company
Colton Stanislawski (PM), Ali Gering, Seth Baar, Brittany Bradley, Lauryn Roberts

8:30-9 AM

Blue Engineering
Paul Boes (PM), Eric Tracy, Mallory Fichera, Andrea Rake

9-9:30 AM

NHDMI LLC
Gabe Halonen (PM), Tanner Nicholas, Roselyn Ignacio, Jared Dietzel, Garrett Muonio

9:30-10 AM

Risoc Engineering
Talos (PM), Ricky Close, Zachery Gogulski, Daryn Carter, Dani Cummins

Dam Projects in the Copper Country

Instructor: Dr. Stan Vitton

Zoom: <https://michigantech.zoom.us/j/83466511049>

Structural Analysis of the Redridge Dam

9-9:30 AM

Structural Design Group
Kelton Czyzio, Thomas Hundt, Alec Weitermann

Analysis of the Calumet Lake Dam, Calumet, MI

9:30-10 AM

Environmental Group
Madeline Bach, Maddie Barrie, Chiarra Elkort-Wickboldt, Amanda Freele, Taylor Poprawski

10-10:30 AM

Geotech/Water Resource Group
Maddy Anderla, Brandon Angel, Dava Lakatos, Kate Lawson

10:30-11 AM

Construction Management/Surveying Group
Luc Lishinski, Darren Nordstrom, Matthew Schmidt, AJ Yokie

Lake State Railways Alpena Improvements

Instructor: Mr. Dave Nelson

Zoom: <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

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9:15-9:45 AM

North Transload Improvements (Grain, Propane, and Ammonium Nitrate)

9:45-10:05 AM

Environmental Issues (Permitting and Disposal of Waste Sawdust at DPI)

10:05-10:15 AM - Conclusions and Wrap Up

TEAMS

Copper Country Construction and Engineering Structural Division
Charlie Gotta (PM), Rachel Golisch, Colton Heikkinen, Megyn Ostrom

Environmental Division
Logan Schmutzler and Cayla Woods (Joint PMs)

Rail Division
Seth Miatech (PM), Tyler Boyle, Riley Saldana

Roads Division
Kyle Callaway (PM), Thomas Gunst, Bret Pugliese, Samuel Rose

Construction Management Division
Conor Flaherty (PM), Jacob Lechner, Ryan Nelson

Northeast Boundary Tunnel, Washington D.C., Brierley Associates

Instructor: Dr. Melanie Watkins

Zoom: <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 Mosby

8:30-9 AM

Temporary Site Civil & Environmental MSMC: Maria Huber, Cooper Ryan, Matthew Sabatini, Sam Genter

Baraga County Road Commission Projects

9-9:30 AM

Pelkie Rd. over Silver River: Civil/Bridge/Trans/Cons. BENJ Engineering: Erik Oshaben, Joel Schramm, Nicholas Kippenhan, 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