The Civil, Environmental, and Geospatial Engineering Department is pleased to invite the University community to attend the spring 2023 senior design team presentations. This semester students have undertaken a wide range of projects to fulfill the Department’s senior design requirement.

**8:00 AM**

**Flood Mitigation via Tunnel for Segment 3 of I-75 Modernization**
- Construction Design
  - Steele Fortress, Jon Maag, Eric Ottevaere, Eddie Rybowiak
- Transportation Design
  - Dylan Ferron, Katie McInnis, Grant Pietila, Nigel Soler
- Geotechnical Design
  - Isaac Fong, Noah Koball, Josh Plante, Connor Rammler, Kevin Wengrzyn
- Structural Design
  - Spencer Archer, Sydney Bryant, Alex Coulter, Sam Gordon, Colin Vander Beek
- Water and Environmental Design
  - Henry Campbell, Andrew Ellstrom, Riley Goerge, John Upham

**Dr. Zhen Liu**  
([Zoom: https://michigantech.zoom.us/j/8481374323](https://michigantech.zoom.us/j/8481374323))

**9:30 AM**

**Superpave Mix Design of Recycled Asphalt Materials**
- Using Soybean Based Materials for Clare County
  - Morgan Coolidge, Joshua King, Emma Meitler
- Using Waste Engine Oil
  - AJ Clarey, Jacob Cleaver, Alli Hummel, Kira Olson

**Road Design and Improvement in Clare County**
- Megan Brinker, Connor Dykehouse, Robon Edwards

**Design Asphalt Pavement on Old Concrete Pavement in Saginaw County**
- Zachery Collin, Evan Geronimi, Simon Peter, Jacob VanDrie

**Road Network Design and Improvement in Dickinson County**
- Joslynn Brown, Bradley Getlinger, Samuel Hoekwater, Lance Hoezee

**11:00 AM**

**Anaerobic Digestion System Design for Mezcal Production Wastes**
- Braeden Beutz, Luke Cook, Emma Doyal, Kathryn Peterson

**KBIC Hatchery Well #6 Location/Design & Pipe Network**
- Emily Bergstrom, Robert Davies, John Myaard

**Process System Design of Biobeneficiation Plant**
- Molly Greene, Kelsie Kaufman, Nathan Kraft, Kendra Lachcik

**Structural Design and Construction Plan of Biobeneficiation Plant**
- Bill Barnhart, Keira Houston, Kenny Marx, Brennan Pike, Joe Roell

**Rural Mexico Water Distillation & Distribution System Design**
- Rachel Anguish, Zachary Deur, Casey Lambert, Rachael Ritter, Drew Yesmunt

**Dr. Nathan Manser**  
([Zoom: https://michigantech.zoom.us/j/3836961131](https://michigantech.zoom.us/j/3836961131))