



MTD Accomplishments as the Roland A. Mariucci Distinguished Practitioner in Residence for 2018 – 2019 Academic Year

Appointment to this position in the CEE Department was in the Spring of 2017.

I had worked as a Professor of Practice prior to that time in the School of Technology (Surveying Engineering and Construction Management programs) along with the Civil and Environmental Engineering Department since January, 2012.

Since I am still currently practicing structural engineering in my own LLC, my capstone senior design projects have always been current, large construction projects. I am on both the Michigan PE and PS Boards and promote professional licensure tirelessly to the students. I have worked diligently to maintain professional industry contacts via the Tech career fair, AGC and ASC activities. This has helped provide real, ingenious capstone projects for the students. Combining that and working with industry professional sponsors gives the students an experience that would not obtain otherwise.

The previous corporate sponsors have been Kiewit, ILF Consultants, COWI NA, HNTB and UPPCO.

The Spring 2018 project was a Proposed Mackinac Straits Tunnel with COWI NA. This gave both the students, myself and Michigan Tech great media exposure and a chance to make an oral presentation in front of the Michigan legislative committees and the Michigan Tech Board of Control.

Our mission in CEE is to “Dream Big, Design Big and Build Big”. I believe these large scale, real projects give the students a much better feel for the types of work they will be involved with after graduation.

I have consistently taught eight undergraduate classes each academic year (four per semester) since going full time in 2012. My previous 35 years of construction and consulting engineering experience plus 5 years of part time university teaching has proven very helpful in all the classes I teach here at Michigan Tech. Between CEE and CMG, I have taught approximately 600 students in Capstone design classes. Additionally, I have taught approximately 200 students in related Surveying and CMG courses.

My Academic Schedule has been as follows:

Fall Semester

SU 3180: Boundary Surveying

CMG 2110: Mechanical and Electrical Equipment for Buildings

CEE 4905: Capstone Senior Design

CEE 4916: Capstone iDesign (w/ international travel)

Spring Semester

SU 4180: Land Subdivision Design

CMG 2140: Building Materials and Systems

CMG 4900: Capstone Senior Design

CEE 4905: Capstone Senior Design

Additionally, I have coached/advised student teams for the Associated Schools of Construction estimating competition held each fall for both CMG and CEE students.

I have worked with the Douglass Houghton Student Chapter of the Michigan Society of Professional Surveyors on the General Land Office – government corner recovery field seminar held each fall.

My CEE departmental service has included the following:

- Faculty Search Committee
- Assessment Committee
- Mentor Future Capstone Design Instructors

My community service has included the following:

- TwIST (Teaching with Integrated Spatial Technology) instructor, for MS and HS Math and Science teachers, showing them how to use Geospatial technology in their classrooms.
- NSPE MATHCOUNTS Coordinator, DH Chapter (UP) since 1983; Math competition for 5th thru 8th grade students.
- State of Michigan: PE Board and PS Boards; Member 2012-2020 & Chair, PS Board, 2016-2019
- NCEES: National Committee Member, EPE & EPP 2013-2020

This has been a great personal experience for me and hopefully the students have benefitted as well.

At 69 years of age and still in good health, I plan to retire from Michigan Tech in January of 2020.

Michael T. Drewyor, PE and PS
Roland A. Mariucci Professor of Practice

