

Opportunities for Geomatics Engineers within the ASCE Future World Vision

ASCE UESI 2020 Surveying and Mapping Conference Panel Session

Recently, ASCE released the [Future World Vision](#) to anticipate, reimagine, and prepare for the challenges and opportunities ahead as infrastructure evolves to meet the needs of and improve the quality of life of populations across the globe. This vision presents bold plans to build communities that are high-tech, resilient, and sustainable such as floating, frozen, off-planet, mega, and rural cities. Immense challenges lie ahead from decaying infrastructure, increasing populations, natural hazards, and climate change. Likewise, given the rapid pace of technological development, many opportunities await to develop innovative solutions.

Geospatial technologies and data will provide the critical backbone to enable these cities to first become a reality and then continue to thrive. The objective of this brainstorming panel session would be to explore potential roles and opportunities for the geomatics engineer in this future world to develop creative solutions to achieve this future world vision. We will explore what skillsets and training are required to prepare geomatics engineers, what geospatial technologies may look like to support these smart cities located in a wide range of environments, and what potential strategies could be employed to evolve geomatics and civil engineering curriculum as well as workforce training opportunities for this future.

Moderator:

- Michael Olsen, *Oregon State University*

Panelists:

- Chris Glantz, *Oregon DOT*
- Gene Roe, *MPN Components\lidarnews.com*
- Debra Laefer, *New York University*
- Dan Gillins, *NOAA, NGS*
- Carlos Velazquez, *Strategic Partnerships, StockPile Reports*