

Responding to Transportation Project Challenges: New Developments in Geotechnical Tools, Processes and Workflow

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ABSTRACT

Geotechnical engineering plays a critical role in transportation infrastructure including bridges, culverts, walls, slopes, embankments, and other elements. Appropriate field investigations are necessary to properly address site variability, risk, and reliability of constructed works. Well-designed ground support and earth retention are important for successful project efficiency, performance, and resilience. The webinar will focus on new and emerging trends in geotechnical engineering in two important areas:

- Advances in site characterization, including new tools, use of multiphase or multi-tool investigations, and evolution of electronic data exchange and deliverables.
- Geotechnical Asset Management including inventory, condition assessment, and ratings- as part of a comprehensive Transportation Asset Management (TAM) framework.

BIO

Derrick Dasenbrock is a geotechnical engineer with the USDOT Federal Highway Administration's Resource Center, joining them in April of 2020. Through his career, Derrick has contributed to many case history papers related to site characterization and foundation performance. He is actively engaged in projects related to advanced site characterization, geotechnical data interoperability, exchange, and visualization with groups including TRB, DFI, and the ASCE Geo-Institute. He is a Registered Professional Engineer in the State of Minnesota, a Diplomate of Geotechnical Engineering, an ASCE Fellow and the current Chair of the GI's Technical Coordination Council.