2014 Faculty Grants

Base Column Connections with Shallow Embedment, American Institute of Steel Construction, Paul W. Richards.

Condition Assessment of Concrete Bridge Decks Treated with Asphalt Overlays, Utah Department of Transportation (UDOT), W. Spencer Guthrie.

Development and Testing of Simplified Performance-Based Procedures for a Priori Predication of Lateral Spread Displacement and Seismic Slope Displacement, United States Geological Survey (USGS), Kevin W. Franke.

Development of a Simplified performance-based procedure to estimate liquefaction-induced lateral spread displacement, United States Geological Survey (USGS), Kevin W. Franke.


Evaluating the Capacity of Deep Soils Foundation, University of Arkansas (Arkansas State Highway & Transportation), Kyle Rollins.

GIS Database Preliminary Study, Utah Fish & Wildlife Services, Gus Williams.

Impact of Bicycle Corridors on Travel Demand in Utah, Utah Department of Transportation (UDOT), Grant G. Schultz


I-15 HOT Lanes Study – Phase II, Utah Department of Transportation (UDOT), Grant G. Schultz

Modeling of Jordan River Channel Repair at Winchester St., Salt Lake Co. Public Works, Rollin H. Hotchkiss.

New Zealand Soil Liquifaction/Pile Foundation Research, Utah Department of Transportation (UDOT), Kyle Rollins

Probabilistic Liquefaction Triggering and Lateral Spread Hazard Maps for Utah County, Utah: Collaborative Research with BYU and Oregon State University, Central Utah Water Conservancy District, Kevin W. Franke

Probabilistic Liquefaction Triggering and Lateral Spread Hazard Maps for Utah County, Utah: Collaborative research with Brigham Young University and Oregon State University, United States Geological Survey (USGS), Kevin W. Franke.

Probabilistic Liquefaction Triggering and Lateral Spread Hazard Maps for Utah County, Utah: Collaborative Research with Brigham Young University and Oregon State University, Utah Department of Transportation (UDOT), Kevin W. Franke.

RAPID: Pile Downdrag Behavior Based on Blast Liquefaction Testing, National Science Foundation (NSF), Kyle Rollins.
RF Sensing and Signal Processing for Monitoring Proliferation Activity, Utah State University, Gus Williams.

Supplemental Field Testing of Pile Down Drag Due to Liquefaction, Federal Highway Administration, Kyle Rollins

Vertical Impedance Testing and Air-Coupled Impact-Echo Testing of Concrete Bridge Decks, Utah Department of Transportation (UDOT), W. Spencer Guthrie.

Water Vapor Movement through Capillary Barriers in Freezing Pavement Structures, Federal Highway Administration, W. Spencer Guthrie.