

## **New 2017 Faculty Grants**

An AmeriGEOSS Cloud-based Platform for Rapid Deployment of GEOGLOWS Water and Food Security Decision Support Apps, National Aeronautics and Space Administration (NASA), Dan P. Ames, E. Jim Nelson, Norm L. Jones

Application of Acoustic Impact-Echo Testing for Guiding Condition Assessment of Multi-Span Concrete Bridge Decks, HDR, W. Spencer Guthrie, Brian A. Mazzeo

Cement Stabilization of Clay Subgrade Soils and Comparison with Lime, Portland Cement Association, W. Spencer Guthrie

Collaborative Research: Improving Student Learning in Hydrology & Water Resources Engineering by Enabling the Development, Sharing and Interoperability of Active Learning Resources, National Science Foundation (NSF), Dan P. Ames, Norm L. Jones, E. Jim Nelson

Collaborative Research: Integrated Field and Laboratory Based Assessment of Liquefaction Triggering and Residual Strength of Gravelly Soil, National Science Foundation (NSF), Kyle M. Rollins

C-UAS I/UCRC REU Supplement, National Science Foundation (NSF), Kevin W. Franke, John D. Hedengren, Randal W. Beard, Timothy W. McLain

Development and Implementation of a Moving Nondestructive Evaluation Platform for Bridge Deck Inspection, University of Nebraska - Lincoln (Nebraska Department of Roads), Brian A. Mazzeo, W. Spencer Guthrie

Enhancing Access to and Visualization of U.S. Short and Medium-Range Stream Forecasts, UCAR (University Corporation for Atmospheric Research) – COMET, Dan P. Ames, Norm L. Jones, E. Jim Nelson

Enhancing Collaborative Research on Liquefaction Evaluation of Gavel, National Science Foundation (NSF), Kyle M. Rollins

Facilities Support: The CUAHSI Water Data Center, National Science Foundation (NSF), Dan. P. Ames, Norm L. Jones, E. Jim Nelson

I/UCRC: Center for Unmanned Aircraft Systems, Phase II, National Science Foundation (NSF), Timothy W. McLain, Randal W. Beard, John D. Hedengren, Kevin W. Franke, Cameron K. Peterson

I/UCRC: Center for Unmanned Aircraft Systems, Phase II - Student Internship, National Science Foundation (NSF), Timothy W. McLain, Kevin W. Franke

Improving Disaster Resilience through Scientific Data Collection with UAV Swarms, NIST -UC San Diego, Kevin W. Franke, Timothy W. McLain

Passive Force-Deflection Testing for High Speed Rail Abutments, WSP USA (California DOT), Kyle M. Rollins

Probabilistic Liquefaction Triggering and Lateral Spread Hazard Maps for Davis, Weber and Salt Lake Counties, Utah, United States Geological Survey (USGS), Kevin W. Franke

RAPID: Collaborative Research - Investigating Unanticipated Geotechnical Phenomena in Kumamoto, Japan Observed from the April 2016 Earthquake Sequence, National Science Foundation (NSF), Kevin W. Franke

Relationship between the Strengths of In Situ and Site-Prepared Mortars, Concrete Masonry Association, Fernando S. Fonseca

Shear and Bending Moment Demands for Beams in Concentrically Braced Frames - Phase II: Inelastic Effects, American Institute of Steel Construction, Paul W. Richards

S12SSI: Cyberinfrastructure for Advancing Hydrologic Knowledge through Collaborative Integration of Data Science, Modeling and Analysis, National Science Foundation (NSF), Dan P. Ames, Norm L. Jones, E. Jim Nelson

STTR Topic: NASA T12.02 Technologies to Enable Novel Composite Repair Methods, National Aeronautics and Space Administration (NASA), David W. Jensen

Vertical Impedance Scanner for Non-Destructive Concrete Bridge Deck Assessment without Direct Rebar Attachment, National Cooperative Highway Research Program, Brian A. Mazzeo, W. Spencer Guthrie