

48TH

**SOUTHWEST
GEOTECHNICAL
ENGINEERING
CONFERENCE**

**MAY 19-21, 2025
SACRAMENTO, CALIFORNIA**

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ENGINEERING CONFERENCE**
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 **GeoDin[®]**
a Fugro company



#1 Geodata software for geotechnical engineers

- ✓ best gINT alternative (easy migration)
- ✓ data storage in cloud or on prem
- ✓ advanced reports and visualization

GeoDin apps for easier workflows:

- GeoDin Ground: designers can now see below the surface in Civil 3D
- GeoDin Onsite: field data collection

 **AUTODESK**
Strategic Partner

AGENDA

MONDAY, MAY 19, 2025

Time	Presentation
10:00 AM - 5:00 PM	Registration
10:00 AM - 5:00 PM	Exhibitor Setup

GEOPHYSICS WORKSHOP

1:00 PM - 1:15 PM	Welcome and FHWA A A-GAME/Geophysics Activities Hector Valencia, Caltrans
1:15 PM - 1:40 PM	Geophysical Applications for Geotechnical Design at the California Department of Transportation Bill Owen, Caltrans
1:40 PM - 2:10 PM	Caltrans Lightning Round William Dalrymple - Case Studies: Detecting Unknown Foundations Beneath Pavement using Electromagnetics and GPR Abdullah Alhaj - GPR for Pavement Subsidence Assessment in California's Transportation Infrastructure Payman Hajiani - Geophysical Applications to Address Subsurface Utility Engineering Needs for California Highways
2:10 PM - 2:40 PM	Networking Break
2:40 PM - 3:00 PM	Demonstration Overview Sage Wagner, Terracon Joey McKinney, Collier Geophysics Bill Owen, Caltrans
3:00 PM - 3:30 PM	Walk to Crocker Park Scan QR Code for Walking Directions 
3:30 PM - 5:00 PM	Geophysics Workshop - Demonstration
5:00 PM - 6:00 PM	Steering Committee Meeting

AGENDA

TUESDAY MAY 20, 2025

Time	Presentation
7:00 AM - 5:00 PM	Registration
7:00 AM - 5:00 PM	Exhibitor Hall
7:00 AM - 8:00 AM	Breakfast
8:00 AM - 8:15 AM	Welcome Caltrans

GEOTECHNICAL DATA IN BIM

8:15 AM - 8:45 AM	Caltrans Implementation of Geotechnical Data in BMI/Digital Delivery David Jang, Caltrans
8:45 AM - 9:15 AM	Implementing AASHTO LRFD Updates with Transformed Geotechnical Data Workflows for LADOTD Xin Peng, Geosyntec
9:15 AM - 9:45 AM	Advancing Geotechnical Digital Models Fatma Ciloglu, Michael Baker Int'l
9:45 AM - 10:05 AM	Networking Break
10:05 AM - 10:35 AM	Using Digital Data Delivery to get Closer to the Edge at Denali and Yellowstone National Parks Scott Anderson, BGC Engineering
10:35 AM - 11:05 AM	Geophysics for the Louisiana DOT Nicholas Ferguson, Louisiana Transportation Research Center
11:05 AM - 11:35 AM	AI-Driven Approach in Digitizing and Managing Historical Subsurface Data Scott Deaton, Dataforensics
11:35 AM - 12:40 PM	Lunch Break

GEOTECHNICAL RISK MANAGEMENT

12:40 PM – 1:10 PM	Low Mobility Grouting on the LA 1 Port Allen Canal Bridge Miranda Perkins, Louisiana DOTD
1:10 PM – 1:40 PM	Foamed Backfill for Subsidence Mitigation and the Utilization of Liquid Sand Samantha McNerney, Aerix Industries
1:40 PM – 2:10 PM	Drilled Shaft Anomaly Repair Alex Gerke, Legacy Foundations
2:10 PM – 2:40 PM	Smart Exploration Plan (SEP) – From Change-Order Catastrophe to Project Efficacy Sage Wagner, Terracon
2:40 PM – 3:00 PM	Networking Break

GOLDEN STATE CASE STUDIES

3:00 PM – 3:30 PM	California High Speed Rail – Construction of Large Diameter Polymer Support Drilled Shafts Tim Avery, Keller NA
3:30 PM – 4:00 PM	Geotechnical Risk evaluation of Alternatives for Last Chance Grade Ken Johnson, WSP
4:00 PM – 4:30 PM	Geotechnical Considerations for the Brightline West High Speed Rail Project Morteza Mirshekari, One Atlas
4:30 PM – 5:00 PM	I-405 South Multi-Asset Design/Build – Saving Time and Money with Detailed Settlement Analysis Scott Lawson, Terracon
5:00 PM – 7:00 PM	Reception in the Exhibitor Hall with Student Posters

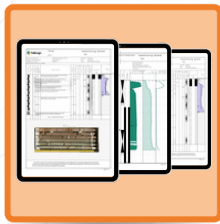




**DATA
COLLECTION**



REPORTING



MANAGEMENT



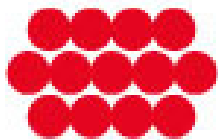
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ROCKSCIENCE

WEDNESDAY MAY 21, 2025

Time	Presentation
7:00 AM - 5:00 PM	Registration
7:00 AM - 8:00 AM	Breakfast
8:00 AM - 5:00 PM	Exhibitor Hall

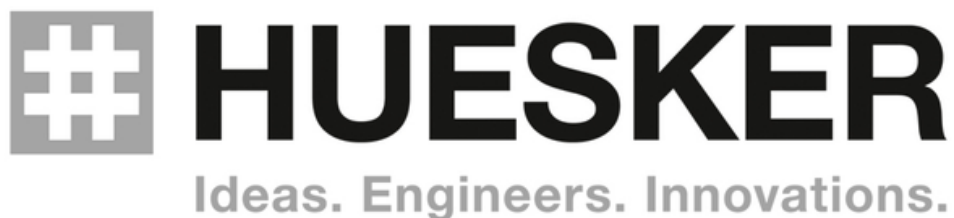
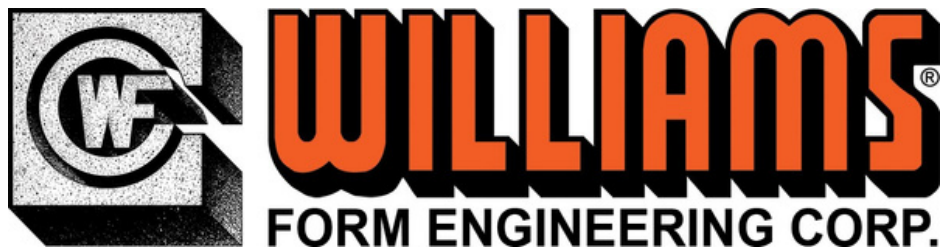
GEOHAZARDS AND EMERGENCY RESPONSE

8:00 AM - 8:30 AM	Protecting California's Highways from Post-Wildfire Debris Flows Using Flexible Debris Flow Barriers: A Case Study from the 2020 El Dorado Fire Demian Nelson, Caltrans
8:30 AM - 9:00 AM	Addressing Slope Failures Involving Problematic Soils in Kansas Amanda Keeney, KDOT
9:00 AM - 9:30 AM	The Scope of Geohazards in Arizona Impacting Highways Jim Lemmon, AZDOT
9:30 AM - 10:00 AM	Networking Break
10:00 AM - 10:30 AM	Probabilistic Fault Rupture Analysis for California Bridges Anna Sojourner and Tom Shantz, Caltrans
10:30 AM - 11:00 AM	Flexible Ring Net Barriers for Rapid Response to Post Wildfire Debris Flow Hazards Brian Forsthoef, Kane GeoTech
11:00 AM - 11:30 AM	Long-Term Performance of Innovative Roadway Repairs Under Emergency Conditions Rich Barrows, One Atlas
11:30 AM - 1:00 PM	Lunch

The logo for Elastizell is a stylized, handwritten-style wordmark in a dark grey color. The letters are thick and rounded, with a casual, artistic feel. The 'E' is particularly large and loops around the 'l', and the 'i' has a small dot. The overall shape is horizontal and fills most of the width of the page.

GEOTECHNICAL ASSET MANAGEMENT

1:00 PM - 1:30 PM	Texas DOT Retaining Walls Approved System List Specification Eddie Galbavy, TXDOT
1:30 PM - 2:00 PM	USACE Landslides in an Asset Management Framework April Fontaine, USACE
2:00 PM - 2:30 PM	A Technological Foundation for Better Transportation Asset Management Chad Sutherland, Cambio Earth
2:30 PM - 3:00 PM	Getting Started with Geotechnical Asset Management - Approaches from Various State DOTs Darren Beckstrand, Landslide Technology
3:00 PM - 3:10 PM	2026 Invite & Closing Remarks
3:10 PM - 3:30 PM	Break
3:30 PM - 5:00 PM	State DOT Open Discussion (State DOT Participants Only)



Dataforensics

GEOVERT



HILFIKER RETAINING WALLS



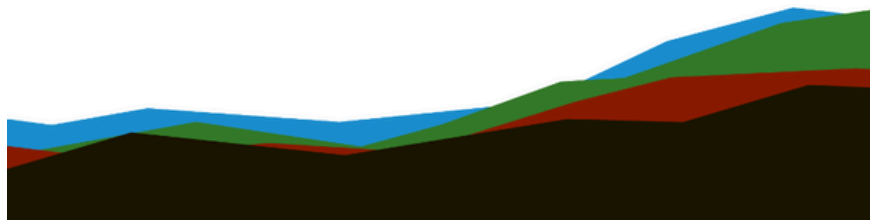
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48TH

NOTES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.