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Professional Registrations

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Iowa

Kentucky
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Maryland
Missouri
Montana
Nevada
New Jersey
New Mexico
North Carolina
North Dakota

Ohio
Oklahoma
Oregon
Pennsylvania
Puerto Rico
South Carolina
Tennessee
Texas
Utah
Vermont

Virginia
Washington
West Virginia
Wyoming

COMPANY BACKGROUND

KANE began as a niche geotechnical company leveraging its geohazard expertise in landslides and instrumentation to include the full array of geotechnical and geoengineering solutions. Our engineers collectively have over 50 years' experience in slope stabilization, rockfall and debris mitigation, and geotechnical instrumentation. Over its 28 years in existence, KANE has designed hundreds of slope stabilization systems, retaining walls, and landslide repair projects as well as geotechnical explorations. We are experts in rockfall/debris protection and slope stabilization. We have taught workshops for Geobrugg AG, Romanshorn, Switzerland for 17 years until Covid. Since then, we, have taught an on-line course in geohazard mitigation for Ingeoexpert, Madrid, Spain.

KANE strives to maintain state-of-the-practice expertise. Our engineers regularly present their work and receive training in the latest approaches to slope stabilization and geohazard mitigation. We have received training in geohazards from Geobrugg, AC in Switzerland, Germany, and Austria and from Maccaferri, S.r.l. in Italy. Within the last two years, our engineers have presented their work at the Geobrugg GEO-Summit in Santa Barbara, California, the 8th International Conference on Debris Flow Hazard Mitigation in Turin, Italy, the 14th International Symposium on Landslides in Chambéry, France, and the 21st Annual Technical Forum on Geohazards in Virginia.

Since our original specialty is geohazards, we are in a unique position with a deeper understanding of the design methods, construction methods, and available materials for mitigation than a general geotechnical engineering firm. We employ our own drafts people who are specifically trained in drafting for geohazards structures. This close relationship between our engineers and drafting staff allows efficient and rapid production of construction drawings.

Over the past few years, our business has expanded to include soil nail walls, retaining walls and foundation design. In addition, we perform conventional geotechnical investigations. We also conduct a robust instrumentation program servicing with clients all over the United States.

Our clients have included government agencies as well as many private entities. We are licensed in 33 states and Puerto Rico, and, besides California, we have done geotechnical projects all over the United States, including Hawaii, Puerto Rico, Alaska, and many other states. As can be seen in the following small sample of project experience we have been involved in road reconstruction, slope stabilization, drainage, and general geotechnical work.

FIRM EXPERTISE – GEOTECHNICAL ANALYSIS AND DESIGN / FOUNDATION DESIGN

We can deliver projects from inspection through construction oversight and quality assurance. Our broad background in general geotechnical engineering, extensive experience in instrumentation, and state-of-the-art analyses and design enable us to develop solutions and provide innovative designs for our clients.

KANE also provides review services for work previously performed. This includes general geotechnical (soils) reports and designs as well as geohazard reports and mitigation designs.

FIRM EXPERTISE – GEOHAZARDS

KANE specializes in rockfall, slope stability, debris flow, and avalanche mitigation and has designed and oversaw construction of mitigation systems throughout the United States. Below are case studies for each area of expertise:

Rockfall

KANE has been involved in hundreds of rockfall mitigation projects throughout the company's years. We can be a part of all phases of the mitigation process, from the initial site investigation, to analysis, to design and engineering, and concluding with construction quality assurance.

Debris Flow

KANE has become a major factor in the evolution of debris flow mitigation. Although a relatively new concept in the United States, due to extensive product knowledge and experience with debris flow mitigation, KANE has been on the forefront of engineering solutions to destructive debris flows.

Slope Stability

Over the years, rockfall mitigation ingenuity has produced a number of different solutions to mitigate other geohazards, slope stability issues being one of them. While becoming familiar with manufacturers' rockfall mitigation systems, we have also developed years of experience with slope stability mitigation procedures.

Avalanche

KANE engineered one of the first avalanche mitigation systems in the United States. We have attended design school in Italy with the Snow Net manufacturer to gain knowledge to provide the most optimal engineering possible. KANE continues to provide engineering and consulting services on snow nets in the United States.

FIRM EXPERTISE – INSTRUMENTATION

Since 1994, KANE has been at the forefront of remote monitoring stations and geotechnical instrumentation. These include complete Remote Monitoring Unit (RMU) Systems for slopes capable of recording ground water levels, rates and directions of ground movement, locations of failure surfaces, rainfall quantities, and soil moisture. We offer a complete range of services that cover the full life cycle of an instrumentation project, from initial requirements analysis and design through implementation and monitoring.

Dr. Kane was a pioneer in the development of time domain reflectometry for monitoring ground movement, especially landslides. He has published extensively on the subject and has taught workshops and consulted with many highway departments and mining companies.

KANE personnel have been trained by Campbell Scientific, the industry's leader in data logger and instrumentation equipment manufacturing. KANE uses their instrumentation expertise to innovate new uses for instrumentation in the geotechnical field.

FIRM EXPERTISE – FORENSIC ENGINEERING AND EXPERT WITNESS

KANE has been involved in legal and forensic cases regarding geotechnical issues. These have ranged from landslide genesis and rockfall to foundation settlements and structural cracking due to expansive soils.

Dr. Kane's extensive experience on hundreds of projects as a registered engineer and geologist in 30 states allows him to bring a broad and robust knowledge to a wide range of geotechnical engineering issues.