



## RESUME

- Name: Alan Kropp
- Education: California State Polytechnic College, Pomona, BSCE, 1971, Civil Engineering  
University of California, Berkeley, MSCE, 1973, Geotechnical Engineering
- Professional Societies: American Society of Civil Engineers - Invited Member, National Committee Drafting "Standards for Design of Residential Foundations on Expansive Soils"  
Association of Soil and Foundation Engineers  
California Geotechnical Engineers Association  
International Conference of Building Officials  
International Erosion Control Association  
Earthquake Engineering Research Institute  
Seismological Society of America  
Structural Engineers Association of Northern California  
American Society for Testing and Materials
- Registration: Civil Engineer, California  
#23921, July 1973  
Geotechnical Engineer, California  
#487, September 1987
- Experience: May 1978 - present  
Alan Kropp & Associates, Berkeley, California  
Principal Engineer  
Perform foundation investigations and geological or fault evaluations for hillside residences, churches, condominiums, subdivisions, office and commercial buildings, shopping centers, warehouses, bridges, and dams. Investigate landslides and building distress, residential foundations, parking lots, and provide expert witness testimony. Also provide consultations on pavement design, deep site improvement, and development of seismic design criteria. Most projects located in California, but additional projects in Puerto Rico, Canada, Taiwan, Turkey, and China.
- August 1975 - May 1978  
Peter Kaldveer and Associates, Oakland, California  
Associate (1977-78), Project Engineer (1975-77)  
Managed foundation investigations, geological evaluations and seismic response analyses for projects including major hillside residential development, cluster of high-rise apartment towers and reconstruction of major container cargo terminal. Included overall responsibility for field investigation, laboratory testing, engineering analyses and report writing. Trained and supervised daily activities of two staff engineers. Responsible for technical development of firm.
- July 1972 - August 1975  
Lowney/Kaldveer Associates, Oakland, California  
Project Engineer (1974-75), Senior Engineer (1973-74), Staff Engineer (1972-73)  
Performed foundation investigations and geological evaluations of projects including schools, hospitals, warehouses, pipelines, commercial buildings, and military buildings, as well as other facilities. Included responsibility for field investigation, laboratory testing, engineering analysis and report writing.

Representative Publications

- "Probabilistic Liquefaction Evaluation of a Riverfront Site," Proceedings, Canadian National Conference on Earthquake Engineering, Vancouver, British Columbia, 1983
- "Landslide Investigation Utilizing Electric Cone Penetration Testing," Co-Authored with James French, Proceedings, Use of In-Situ Tests in Geotechnical Engineering, American Society of Civil Engineers Specialty Conference, Blacksburg, Virginia, 1986
- "A Comparison of Published Ground Motion Parameters," Proceedings, 3rd International Conference on Soil Dynamics and Earthquake Engineering, Princeton, New Jersey, 1987
- "Existing Pile Load Capacity Evaluation," Proceedings, Second International Conference on Case Histories in Geotechnical Engineering, St. Louis, Missouri, 1988
- "Preliminary Report on the Principal Geotechnical Aspects of the October 17, 1989 Loma Prieta Earthquake," Co-Authored with R.B. Seed, S.E. Dickensen, M.F. Riemer, J.D. Bray, N. Sitar, J.K. Mitchell, I.M. Idriss, R.E. Kayen, L.F. Harder, Jr., and M.S. Power, University of California at Berkeley, Earthquake Engineering Research Center Report 90-05, 1990
- "Ground Failure During Loma Prieta Earthquake - Downtown Santa Cruz," Co-Authored with Michael Thomas, Proceedings, Second International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, 1991
- "Importance of Drainage in Biotechnical Stabilization Projects," Proceedings, National Science Foundation Workshop on Biotechnical Stabilization, Ann Arbor, Michigan, 1991
- "Partial Landslide Repair By Buttress Filling," Co-Authored with Michael Thomas, in Rockfall Prediction and Control and Landslide Case Histories, Transportation Research Board, Transportation Research Record 1343, 1992
- "Stabilization of Debris Flow Scar Using Soil Bioengineering," Co-Authored with Michael Thomas, in Rockfall Prediction and Control and Landslide Case Histories, Transportation Research Board, Transportation Research Record 1343, 1992
- "Earthflow Evaluation and Control: A Case History," Co-Authored with Michael Thomas, Proceedings, Stability and Performance of Slopes and Embankments - II, Berkeley, California, 1992
- Invited Paper: "Field Wetting Tests on a Collapsible Soil Fill," Co-Authored with David McMahon and Sandra Houston, 1st International Symposium on the Engineering Characteristics of Arid Soils, Proceedings Edited by P.G. Fookes and R.H.G. Parry, London, England, 1993
- Invited Paper: "Case History of a Collapsible Soil Fill," Co-Authored with David J. McMahon and Sandra L. Houston, in Vertical and Horizontal Deformations of Foundations and Embankments. Edited by Albert T. Yeung and Guy Y. Felio, Society of Civil Engineers, American Society of Civil Engineers, Geotechnical Special Publication 40, Settlement '94 Specialty Conference, College Station, Texas, 1994
- "The Performance of Hillside Fills During the Northridge Earthquake," Co-Authored with David McMahon, Jonathan Stewart, and Jonathan Bray, Third International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, 1995
- "Seismic Performance of Hillside Fills," Co-Authored with David McMahon, Jonathan Stewart, and Jonathan Bray, in Landslides Under Static and Dynamic Conditions - Analysis, Monitoring and Mitigation, Edited by David K. Keefer and Carlton L. Ho, American Society of Civil Engineers, Geotechnical Special Publication 52, 1995
- "Maps and Descriptions of Liquefaction and Associated Effects - The Loma Prieta, California, Earthquake of October 17, 1989," Co-Authored with John C. Tinsley, John A. Egan, Robert E. Kayen, Michael J. Bennett, and Thomas L. Holzer, in The Loma Prieta, California, Earthquake of October 17, 1989 - Liquefaction, T.L. Holzer, Editor, United States Geological Survey, Professional Paper 1551-B, 1998
- "CPT, DMT and Shear Wave Velocity Evaluation of Liquefaction Sites in Santa Cruz and Treasure Island," Co-Authored with R.D. Hryciw and S.E. Shewbridge, in The Loma Prieta, California, Earthquake of October 17, 1989 - Liquefaction, T.L. Holzer, Editor, United States Geological Survey, Professional Paper 1551-B, 1998
- "Possible Costs Associated with Investigating and Mitigating Some Geologic Hazards in Rural Parts of San Mateo County, California," Co-Authored with Earl E. Brabb, Sebastian Roberts, William R. Cotton, Robert H. Wright, and Erik N. Zinn, United States Geological Survey, Open File Report 00-127, 2000
- "Comparison of Laboratory Data and Field Performance for Fills Subject to Hydrocompression," and "Proposed Compaction Specifications to Minimize Hydrocompression-Induced settlements in Fills Supporting Residential Structures," Each Co-authored with David J. McMahon, in Constructing and Controlling Compaction of Earth Fills, David W. Shanklin, Keith R. Rademacher and James R. Talbot, Editors, American Society for Testing and Materials, STP 1384, 2000
- "Seismic Performance of Hillside Fills," Co-Authored with Jonathan P. Stewart, Jonathan D. Bray, David J. McMahon, and Patrick M. Smith, Journal of Geotechnical and Geoenvironmental Engineering, Division of ASCE, Vol. 127, No. 11, November 2001