

ABDUL SHAKOOR

EDUCATION

- 1982 Ph.D. Engineering Geology, Purdue University
- 1978 M.S. Engineering Geology, Purdue University
- 1968 M.S. Engineering Geology, University of Leeds
- 1964 M.S. Geology, Punjab University
- 1963 B.S. Geology, Punjab University

TEACHING EXPERIENCE

- 2015-Pres Emeritus Professor of Geology, Kent State University
- 1991-2015 Professor of Geology, Kent State University
- 1986-1991 Associate Professor of Geology, Kent State University
- 1982-1985 Assistant Professor of Geology, Kent State University
- 1965-1977 Assistant Professor of Engineering Geology, Punjab University

COURSES TAUGHT

Engineering Geology, Advanced Engineering Geology, Soil Mechanics, Rock Mechanics, Foundation Engineering, Rock Slope Stability, Geohydrology, Remote Sensing, Summer Field Camp, Physical Geology, Environmental Geology

PAPERS PUBLISHED

- Wells, N.W. and Shakoor, A., 2019, *Are three to ten tests enough to characterize a rock property*: Environ. & Eng. Geosci., v. XXV, no. 3, pp. 223-244.
- Poluga, S.L., Shakoor, A., and Bilderback, E.L., 2018, *Rock mass characterization and stability evaluation of Mount Rushmore National Memorial, Keystone, South Dakota*: Environ. & Eng. Geosci., v. XXIV, no. 4, pp. 385-412, DOI: [10.2113/EEG-2042](https://doi.org/10.2113/EEG-2042).
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- Korte, D. and Shakoor, A., 2018, *landslide susceptibility and soil loss estimations impacting streams in the Drift Creek Watersheds (Siletz), Lincoln County, Oregon*: in Shakoor, A. and Cato, K., eds., IAEG/AEG Annual Meeting Proceedings, San Francisco, California, Volume 1, Slope Stability: Case Histories, Mapping, Emerging Technologies, Springer, Switzerland, pp. 135-143.
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- Yeakley, J. Shakoor, A., and Johnson, W., 2018, *Measuring fault displacements caused by salt tectonics using marine geophysical data*: in Shakoor, A. and Cato, K., eds., IAEG/AEG Annual Meeting Proceedings, San Francisco, California, Volume 2, Geotechnical and Environmental Site Characterization, Springer, Switzerland, pp. 153-159.
- Shakoor, A., 2018, *Atterberg Limits*: in Bobrowski, P.T. and Marker, B., eds., Encyclopedia of Engineering Geology, Encyclopedia of Earth Sciences Series, Springer International Publishing AG, Switzerland, pp. 44-47, DOI: 10.1007/978-3-319-12127-7_22-1.
- Shakoor, A., 2018, *Characterization of Soils*: in Bobrowski, P.T. and Marker, B., eds., Encyclopedia of Engineering Geology, Encyclopedia of Earth Sciences Series, Springer International Publishing AG, Switzerland, pp. 108-114, DOI:10.1007/978-3-319-12127-7_48-1.
- Shakoor, A., 2018, *Compaction*: in Bobrowski, P.T. and Marker, B., eds., Encyclopedia of Engineering Geology, Encyclopedia of Earth Sciences Series, Springer International Publishing AG, Switzerland, pp. 167-170, DOI: 10.1007/978-3-319-12127-7_62-1.
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- Malizia, J.P. and Shakoor, A., 2018, *Effect of water content and density on strength and deformation behavior of clay soils*: Eng. Geol., v. 244, pp. 125-131, DOI: 10.1016/j.enggeo.2018.07.028.
- Jacklitch, C., Shakoor, A., and Lund, W.R., 2018, *Evaluation of rockfall-hazard potential for Rockville, Utah, following a 2013 fatal rockfall*: Environ. & Eng. Geosci., v. XXIV, no. 2, pp. 143-163.
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- Tizzano, A.S., Shakoor, A., and Lund, W., 2016, *Characterization of failure parameters and preliminary slope stability analysis of the Cedar Canyon Landslide, Iron County, Utah*: Environ. & Eng. Geosci., v. XXII, no. 3, pp. 245-258, DOI: 10.2113/EEG-1742.
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- Amirault, R.L. and Shakoor, A., 1988, *Physical and chemical properties of fly ash from solid waste incineration*: Geological Society of America, Abstracts with Programs, v. 20, p. 331.
- Amin, S. and Shakoor, A., 1988, *Bluff recession along Lake Erie near the Ohio-Pennsylvania border caused by toe erosion*: Geological Society of America, Abstracts with Programs, v. 20, p. 331.
- Shakoor, A., 1987, *A preliminary survey of landslide hazards along the Karakorum Highway, Northwestern Pakistan*: Association of Engineering Geologists, Abstracts and Programs, p. 50.
- Young, B.T. and Shakoor, A., 1987, *Stability investigations of selected road cuts along the Ohio River*: Association of Engineering Geologists, Abstracts and Programs, p. 52.
- Roeper, T.R. and Shakoor, A., 1987, *A geotechnical and hydrogeological investigation of an existing landfill site in Portage County, Ohio*: Association of Engineering Geologists, Abstracts and Programs, p. 48.
- Young, B.T. and Shakoor, A., 1987, *Stability of selected road cuts along the Ohio River as influenced by valley stress relief joints*: Proceedings, 38th Annual Highway Geology Symposium, Pittsburgh, Pennsylvania, Abstract, p. 15.
- Taft, A.G. and Shakoor, A., 1987, *A geotechnical evaluation of the ash residue from the Akron, Ohio RDF facility*: Proceedings, Waste Management for the Energy Industries Conference, North Dakota Mining and Mineral Resources Institute and the University of North Dakota Energy Research Center, Abstract, p. 12.
- Illes, R.J. and Shakoor, A., 1987, *A geotechnical evaluation of abandoned strip mines for sanitary landfill purposes*: Geological Society of America, Abstracts with Programs, v. 19, pp. 20-21.
- Taft, A.G. and Shakoor, A., 1987, *Suitability of ash residue from solid waste incineration as a construction material*: Geological Society of America, Abstracts with Programs, v. 19, p. 61.
- King, T.A. and Shakoor, A., 1986, *Coal recovery potential and reclamation of the Winding Gulf refuse pile, Raleigh County, West Virginia*: Association of Engineering Geologists, Abstracts and Programs, p. 54.
- Shakoor, A. and Weber, M.W., 1986, *Role of shale undercutting in promoting rock falls and wedge failures along Interstate 77*: Association of Engineering Geologists, Abstracts and Programs, p. 63.
- Ruof, M.A. and Shakoor, A., 1986, *Stability of selected mine waste embankments in east-central Ohio as related to their engineering properties*: Geological Society of America, Abstracts with Programs, v. 18, p. 322.
- King, T.A. and Shakoor, A., 1986, *Site selection, design, and reclamation of the Winding Gulf refuse pile, Raleigh County, West Virginia*: Geological Society of America, Abstracts with Programs, v. 18, p. 313.

- McKim, M.J. and Shakoor, A., 1985, *A geotechnical investigation of mine subsidence incidents in selected areas of Madisonville, Kentucky*: Geological Society of America, Abstracts with Programs, v. 17, p. 659.
- Schmidt, M.L. and Shakoor, A., 1985, *Geotechnical and hydrological evaluation of alternative soil materials for capping landfills*: Association of Engineering Geologists, Abstracts and Programs, p. 74.
- Ruof, M.A. and Shakoor, A., 1985, *A geotechnical investigation of selected mine waste embankments in east-central Ohio*: Association of Engineering Geologists, Abstracts and Programs, p. 73.
- Jones, M.L. and Shakoor, A., 1985, *An investigation of landslide hazards in Summit County, Ohio, with special emphasis on selected landslide locations*: Association of Engineering Geologists, Abstracts and Programs, p. 66.
- Shakoor, A., 1985, *Requirements of durable concrete aggregates for highway construction technology*: Proceedings, First National Seminar on Technology Transfer, National Center for Technology Transfer, Islamabad, Pakistan, Abstract, p. 199.
- Bendula, R.A. and Shakoor, A., 1985, *A geotechnical evaluation of existing and potential landfill sites in Portage County, northeastern Ohio*: Geological Society of America, Abstracts with Programs, v. 17, p. 280.
- Weber, M.W. and Shakoor, A., 1985, *Identification and analysis of slope movements along Interstate 77 between Canton, Ohio and Ripley, West Virginia*: Geological Society of America, Abstracts with Programs, v. 17, p. 330.
- Brock, D. and Shakoor, A., 1984, *Relationship between fissility, composition and engineering characteristics of some shales from northeast Ohio*: Geological Society of America, Abstracts with Programs, v. 16, p. 127.
- Shakoor, A. and West, T.R., 1982, *Relationship between insoluble residue content and pore characteristics of carbonate aggregates*: Proceedings, Eighteenth Forum on Geology of Industrial Minerals, Bloomington, Indiana, Abstract, p. 213.
- Shakoor, A. and Scholer, C.F., 1982, *Comparison of aggregate pore characteristics as measured by mercury intrusion porosimeter and Iowa pore index test*: American Concrete Institute Symposium, Detroit, Michigan, Abstract, p. 453.
- Shakoor, A. and West, T.R., 1982, *Test method for carbonate aggregates in pavements to minimize pitting/popouts caused by freezing and thawing*: Geological Society of America, Abstracts with Programs, v. 14, p. 287.
- Shakoor, A., West, T.R., and Scholer, C.F., 1981, *Physical characteristics of some Indiana argillaceous carbonates regarding their freeze-thaw resistance in concrete*: Association of Engineering Geologists, Abstracts and Programs, p. 58.
- Shakoor, A. and West, T.R., 1979, *Petrographic examination of aggregates used in bituminous overlays for Indiana pavements as related to their polishing characteristics*: Proceedings, 30th Annual Highway Geology Symposium, Portland, Oregon, Abstract, p. 185.

GRANTS

- 2016-2017 Ohio Department of Transportation (Student Study) – Cost effective uses of lightweight aggregate made from dredged material in construction, Senior Personnel in collaboration with Dr. Rui Liu, Principal Investigator, College of Architecture and Environmental Design (\$36,211.08)

- 2014-2015 National Park Service – Rock mass characterization and stability evaluation of Mt. Rushmore, South Dakota (\$25,000)
- 2011-2013 Ohio Department of Transportation – Probabilistic use of LiDAR data to detect and characterize landslides (\$47,324)
- 2008-2010 Ohio Department of Transportation - Rock slope design criteria (\$169,133)
- 2007-2008 Ohio Department of Transportation - Rock slope design criteria (\$272,192)
- 2001-2003 Ohio Department of Transportation - Development of a rockfall hazard rating matrix and data management system for Ohio (\$162,391)
- 1996 PPG/ICF Kaiser, Inc. - Evaluation of alternate waste materials for stabilization of lime spoil (\$14,000)
- 1994-96 Ohio Department of Transportation - A Geotechnical investigation of the potential use of shredded scrap tires in soil stabilization (\$80,444)
- 1990 Kent State University Summer Research Appointment (\$5000)
- 1990 NSF Small Business Innovation Research Program - Improved instrumentation for conducting the standard penetration test (\$50,000); subcontract to KSU (\$16,666)
- 1989-90 Huron Lime Company - Engineering properties and applications of lime scrubber sludge (\$14,953)
- 1988-89 OBR Urban University Program - Engineering applications of ash residue from solid waste incineration: a solution to urban waste problems (\$15,000).
- 1985-86 Waste Energy Technology Corporation - A geotechnical investigation of ash residue from solid waste incineration (\$3,000)
- 1985-86 Portage Landfill & Development Co. - Geotechnical and hydrogeological investigations of the Portage Landfill and Development Company Landfill (\$12,392)
- 1984-85 A & B Refuse Disposers, Inc. - A geotechnical evaluation of the existing and potential landfill sites in Portage County, Ohio (\$7,560)
- 1984-85 R & F Coal Company - Geotechnical evaluation of selected mine waste embankments in east-central Ohio, with special emphasis on the significance of a low wall (\$12,100)
- 1984-85 Maben Energy Corporation - Site selection, design, and reclamation of the Winding Gulf coal refuse pile, Raleigh County, West Virginia (\$15,120)
- 1983 Kent State University Summer Research Appointment (\$5000)
- 1981-82 Indiana Dept. of Highways Research Assistantship, Purdue University
- 1978-79 Indiana Dept. of Highways Research Assistantship, Purdue University

AWARDS

- 2017 “The Schuster Medal Award” – A North American award given by the Association of Environmental & Engineering Geologists and Canadian Geotechnical Society for research in geohazards
- 2017 “Albert Nelson Marquis Lifetime Achievement Award”, The Marquis who’s Who Publication Board
- 2015 “Honorary Member Award”, Association of Environmental & Engineering Geologists
- 2013 “Karl and Ruth Terzaghi Outstanding Mentor Award”, Association of Environmental & Engineering Geologists

- 2013 "Glenn W. Frank Outstanding Teaching Award", Department of Geology, Kent State University
- 2012 "Meritorious Service Award", Environmental & Engineering Geology Division, Geological Society of America
- 2010 Nominated for College of Arts and Sciences "Outstanding Teacher Award", Kent State University
- 2006 "Glenn W. Frank Outstanding Teaching Award", Department of Geology, Kent State University
- 2005 "Mentorship Excellence Award", Graduate Student Senate, Kent State University
- 2004 "Floyd T. Johnston Service Award", Association of Engineering Geologists
- 2001 "Outstanding Alumnus Award", Department of Earth and Atmospheric Sciences, Purdue University
- 1997 "Outstanding Professor of the Year Award" for the year 1996, American Society of Civil Engineers, Pittsburgh Section
- 1993 "Glenn W. Frank Outstanding Teaching Award", Department of Geology, Kent State University
- 1990 "Outstanding Member Award", Association of Engineering Geologists, Allegheny-Ohio Section
- 1988 Nominated for the Kent State University Alumni Association "Distinguished Teacher Award".
- 1988 Nominated for the College of Arts & Sciences "Outstanding Teacher Award",
- 1987 Nominated for the College of Arts & Sciences "Outstanding Teacher Award",
- 1987 "Glenn W. Frank Outstanding Teaching Award," Department of Geology, Kent State University

HONORS

- 2018 Member, Editorial Board, Encyclopedia of Engineering Geology, Springer International Publishing AG, Switzerland
- 2018-pres Member, The Honorary Member Award Committee, AEG
- 2017-pres Member, The Schuster Medal Award Committee
- 2013-pres Listed in Marquis Who's Who in the World
- 2010-pres Listed in Marquis Who's Who in America
- 2008-2014 Member, Committee on Exploration and Classification of Earth Materials (AFP20), Transportation Research Board
- 2008-pres GSA Campus Representative for Kent State University
- 2005-2014 Member, Committee on Engineering Geology (AFP10), Transportation Research Board
- 2001-2012 Member, Ad hoc Committee on University Liaison, Environmental & Engineering Geology Division, Geological Society of America
- 1998-pres Co-Editor, "Environmental & Engineering Geoscience" - a joint AEG-GSA publication
- 1994-pres Member, Editorial Board of "Engineering Geology" - an international journal published by Elsevier
- 2008-2009 Chair, Environmental & Engineering Geology Division, Geologic Society of America

- 2007 Vice-Chair, Engineering Geology Division, Geological Society of America
- 2007 Member, Joint Technical Program Committee (JTPC), Geological Society of America
- 2006 Secretary/Treasurer, Engineering Geology Division, Geological Society of America
- 2005 Member-at-Large, Engineering Geology Division, Geological Society of America
- 2001-2010 External Referee for the Research Grants Council of Hong Kong, China
- 2001-2004 Member, E.B. Burwell, Jr. Award Committee, Engineering Geology Division, Geological Society of America
- 2000 TOKTEN (Transfer of Knowledge Through Expatriate Nationals) /UNDP Scholar assignment to National Engineering Services of Pakistan (NESPAK), Pakistan
- 1999-2000 President, Northern Ohio Geological Society (NOGS)
- 1999-2000 President, Great Lakes Geotechnical and Geoenvironmental Conference Steering Committee (GLGGC)
- 1999 TOKTEN (Transfer of Knowledge Through Expatriate Nationals) /UNDP Scholar assignment to Punjab University, Pakistan
- 1998-99 Vice President, Northern Ohio Geological Society (NOGS)
- 1998-99 Vice President, Great Lakes Geotechnical and Geoenvironmental Conference Steering Committee (GLGGC)
- 1997 TOKTEN (Transfer of Knowledge Through Expatriate Nationals)/UNDP Scholar assignment to Punjab University, Pakistan
- 1995-97 Associate Editor, "Environmental & Engineering Geoscience" - a joint AEG-GSA publication
- 1995 TOKTEN (Transfer of Knowledge Through Expatriate Nationals) /UNDP Scholar assignment to Quaid-e-Azam University, Pakistan
- 1993-1997 Editor, Association of Engineering Geologists News (AEG News)
- 1990-2007 Member, Commission #16, International Association of Engineering Geology (Responsible for Engineering Geology and Preservation of World's Historical Monuments)
- 1990-92 President, Association of Engineering Geologists, Allegheny-Ohio Section

PROFESSIONAL SOCIETY MEMBERSHIPS/FELLOWSHIP

Association of Environmental and Engineering Geologists (**Honorary Member**)
 American Institute of Professional Geologists
 American Society of Civil Engineers
 International Association of Environmental & Engineering Geology
 Geological Society of America (**Fellow**)
 Northern Ohio Geological Society

PROFESSIONAL REGISTRATION

Certified Professional Geologists, American Institute of Professional Geologists, Registration #CPG7746
 Professional Geologist, Commonwealth of Pennsylvania, Registration #003051-G

INDUSTRIAL AND GOVERNMENTAL EXPERIENCE

- 2018, December-2019, April, Member, Independent External Peer Review (IEPR) Panel, Westminster, East Garden Grove, California, Flood Risk Management Feasibility Study – subcontractor to Battelle.
- 2016, October-2017, March – Member, Independent External Peer Review (IEPR) Panel, Mohawk Dam, Dam Safety Modification Study (DSMS), Coshocton County, Ohio - subcontractor to Battelle.
- 2015, January-2016, January - Member, Independent External Peer Review (IEPR) Panel, Dam Safety Modification Report (DSMR) and Environmental Assessment (EA) for Zoar Levee and Diversion Dam, Zoar Village, Tuscarawas County, Ohio – subcontractor to Battelle
- 2014, November-2015, March - Member, Independent External Peer Review (IEPR) Panel, Joe Pool Drilling Study, Texas - subcontractor to Battelle
- 2014, November-2015, May 5- Member, Independent External Peer Review (IEPR) Panel, Assessment, analysis, and Evaluation of the Bluestone Dam Safety Assurance Project, West Virginia, 100% DDR for Phase 3 - subcontractor to Battelle
- 2014, November-2015, May - Member, Independent External Peer Review (IEPR) Panel, Assessment, analysis, and Evaluation of the Bluestone Dam Safety Assurance Project, West Virginia, Phase 3 Construction - subcontractor to Battelle
- 2014, October-2015, July - Member, Independent External Peer Review (IEPR) Panel, Assessment, analysis, and Evaluation of the Dover Dam Safety Assurance Project, Ohio, Phase 2 Construction - subcontractor to Battelle
- 2013, June-2013, November – Member, Independent External Peer Review (IEPR) Panel, Supplemental Major Rehabilitation Evaluation Report for the Center Hill Dam, Tennessee - subcontractor to Battelle
- 2012, July-2013, November – Member, Independent External Peer Review (IEPR) Panel, Engineering, Economic, and Environmental Evaluation of the Geotechnical, Hydrological, Hydraulic, and Structural Aspects of Dam Safety Modification Report for Lake Isabella Dam, California - subcontractor to Battelle
- 2012, March-February 2013 – Member, Independent External Peer Review (IEPR) Panel, Assessment, analysis, and Evaluation of the Bluestone Dam Safety Assurance Project, West Virginia, 100% DDR for Phases 3 and 4 - subcontractor to Battelle
- 2011, November-2012, May, Member, Independent External Peer Review (IEPR) Panel, Assessment, analysis, and Evaluation of the Dover Dam Safety Assurance Project, Ohio, Phase 1 Construction - subcontractor to Battelle
- 2010, May-2012, December - Member, Independent External Peer Review (IEPR) Panel, Assessment, analysis, and Evaluation of the Bolivar Dam Safety Assurance Project, Ohio – 100% DDR and 90% Plans and Specs - subcontractor to Battelle
- 2010, February-2012, November - Member, Independent External Peer Review (IEPR) Panel, Assessment, analysis, and Evaluation of the Dover Dam Safety Assurance Project, Ohio – 100% DDR and Plans and Specifications for Phases 1 and 2 -subcontractor to Battelle
- 2009, November-2010, May - Member, Independent External Peer Review (IEPR) Panel, Assessment, analysis, and Evaluation of the Bluestone Dam Safety Assurance Project, West Virginia, 50% DDR - subcontractor to Battelle

- 2007 Water and Power Development Authority (WAPDA), Pakistan - Member, Panel of Experts, Dasu Dam Project
- 2006 Water and Power Development Authority (WAPDA), Pakistan - Member, Panel of Experts, Basha-Diamer Dam Project
- 2006 R. J. Mann – Attorney, Expert witness testimony in Robert Lewis versus R&F Coal Company case regarding blasting-induced damage
- 2003 National Engineering Services of Pakistan - Slope stability and relocation studies along Karakoram Highway, Pakistan
- 2002 Ronald Kaple – Investigation of structural damage to Kaple’s house due to quarry blasting
- 2001 James Rauchfleisch – Investigation of the structural damage to Rauchfleisch’s house due to differential settlement.
- 2000 American Geotechnical and Environmental Services, Inc. - Evaluation of slope instability and proposed geological investigation along sections of I-79 and S.R. 286, Pennsylvania
- 1999 Williams, Welser & Kratcowski - Assessment of Farm Property located at 12008 St. Rt. 4, Groton Township, Erie County, Ohio, as a limestone and dolomite resource.
- 1999 R&R International, Inc. - Consultant, Engineering, procurement, and construction Division
- 1998 American Geotechnical and Environmental Services, Inc. - Consultant on New Baltimore landslide, I-76, Pennsylvania
- 1998 Stephen J. Magley - Investigation and expert witness testimony regarding a landslide affecting two adjacent properties on Lake Erie shoreline, Presque Isle
- 1998 Robert Lewis - Determination of the cause of lateral ground movement at Lewis' property that occurred during coal-mine blasting operations
- 1998 Anita Cosgrove - Evaluation of the feasibility of constructing a pond at a residential site
- 1996-98 American Geotechnical and Environmental Services, Inc. - Consultant on Route 220 project near State College, Pennsylvania
- 1995-96 Tim Yoder Construction Company - Site evaluation for a residential house in Solon area, Cuyahoga County
- 1995-96 Ronald Williams - Investigation of settlement damage to homes due to excavation of deep trenches for installation of sewer lines, White Pond, Akron
- 1995-96 Merle Owens - Landslide investigation and remediation for a residential house in Bath area, Summit County
- 1995-96 Tom UlsPIC, Chestnut Hill Water Company - Landslide remediation for a residential house in Gates Mills area, Cuyahoga County
- 1995-96 Timothy McGarry, Attorney - Landslide remediation for a residential house in Solon, Cuyahoga County.
- 1995-96 Daniel Morris, Attorney - Investigation and expert witness testimony regarding landslide damage to two residential homes in the Moreland Hills area, Cuyahoga County
- 1994-95 Lange and Dillon Realty - Evaluation of sand and gravel deposits at Roth's property, Mogadore Road, Portage County
- 1993-94 William Ferber - Slope stability evaluation of a residential site, Vermillion
- 1993-94 Emory Geller - Remediation of slope stability problems at a residential site, Akron

- 1992-93 John Audino - Investigation of damage caused to a bar building by nearby blasting operations
- 1992-93 Formtech Enterprises, Inc. - Basecourse material evaluation for installation of highway reflectors
- 1992-93 Donald Hill - Slope stability of a residential site, Put-in-Bay Island
- 1992-93 Mike Bigley - Subsurface investigations and embankment design for the development of a private lake
- 1991-92 Eagle International - Evaluation of shale-fill stability
- 1991-92 R & R International, Inc. - Consultant for the geotechnical division (slope stability, foundation design, and analysis of subsurface investigations and site evaluation for a variety of engineering structures including buildings, embankments, bridges, highway pavements, etc.)
- 1991-92 Design Crafters, Inc. - Evaluation of slope stability problems at a residential site
- 1990-91 Tim Yoder Construction Co. - Design of remedial measures to correct landslide and piping problems associated with a pond at Lindseth's property, Hunting Valley, Cleveland
- 1990-91 Robert A.M. Stern, Architects - Foundation design and analysis for Lindseth's house, Hunting Valley, Cleveland
- 1990-91 George A. Fielder & Associates - Investigation of a landslide affecting a driveway in New Philadelphia
- 1989-90 R & R International, Inc. - Evaluation of compressibility of fill material - PENDOT project
- 1989-90 R & R International, Inc. - Stability analysis and remedial measures for selected landslides
- 1988-89 Formtech, Inc. - Design of mat foundation for a silo
- 1986-87 Canton Aggregates Co. - Petrographic evaluation of sand and gravel aggregates
- 1986-87 Albert Payne - Evaluation of soil and drainage conditions for property development
- 1986-87 Everett and Associates - Evaluation of factors affecting the integrity of confining beds relative to deep injection of hazardous wastes
- 1985-86 Swan and Kodak, Attorneys - Investigation of damage to residential houses due to blasting by a nearby coal company
- 1984-85 Eaton Corporation - Design of foundations for vibratory machines
- 1984-85 A.D. McCallin, Attorney - Investigation and testimony as an expert witness regarding damage to residential houses due to blasting operations by a nearby coal company
- 1983-84 A.D. McCallin, Attorney - Consultant on gas leakage into homes near gas stations
- 1983-84 A.D. McCallin, Attorney - Consultant on basement flooding and water well problems associated with nearby strip mine operations
- 1964-65 Site Geologist, Mangla Dam project, Pakistan

UNIVERSITY AND PUBLIC SERVICE

- 2008-2011 Member, Graduate Studies Committee
- 2008-2011 Member, University Teaching Council
- 2004-2005 Member, Promotion Advisory Board
- 2001-2002 Member (alternate), University Research Council
- 1999-2000 Member (alternate), University Teaching Council

1998-2000	Member, Faculty Advisory Committee (Chair 1998-1999)
1998-99	Member, College of Arts and Sciences Advisory Committee
1997-99	Member, Graduate Studies Committee
1995-97	Member, Undergraduate Studies Advisory Committee
1994-96	Member, Faculty Advisory Committee (Chair 1994-1995)
1994-95	Member, Chairman Review Committee
1994-95	Member, College of Arts and Sciences Advisory Committee
1994-95	Member, Promotion Advisory Board
1993-97	Coordinator, Graduate Studies
1993-97	Member, Graduate Faculty Council
1992-93	Member, Promotion Advisory Board
1992-93	Member, Search Committee for Associate Dean of Graduate Affairs
1992-93	Member, Self-Study Steering Committee for Institutional Advancement
1991-96	Member, Executive Committee, Water Resources Research Institute
1991-93	Member, Faculty Advisory Committee (Chair 1991-1992)
1991-93	Member, College of Arts & Sciences Advisory Committee
1988-92	Member, Graduate Studies Committee
1988-92	Minorities Liaison Person, College of Arts & Sciences
1987-89	Member, Faculty Advisory Committee
1985-88	Member, Speakers Committee
1984-pres	Advisor, Kent State Association of Engineering Geologists
1983-86	Member, Faculty Advisory Committee (Chair, 1983-85)
1983-85	Member, College of Arts & Sciences Advisory Committee

THESES DIRECTED

- Lokre, C. V., 2019, *Effect of initial density, water content, drying temperature, layer thickness, and plasticity characteristics on shrinkage crack development in clay soils: an experimental study*, 180 p.
- Delaney, R.K., 2019, *Using an unmanned aerial vehicle (UAV) for collecting discontinuity orientation data for slope stability analysis: two case studies from Virginia*, 148 p.
- Joliet, C.E., 2019, *The effect of gravel content and size on the permeability of sandy soils*, 85 p.
- Yeakley, J., 2018, *Influence of salt tectonics on seafloor morphology between Algeria and Sardinia*, 121 p.
- Poluga, S.L., 2017, *Rock mass characterization and stability evaluation of Mount Rushmore National Memorial, Keystone, South Dakota*, 352 p.
- Jacklitch, C., 2016, *A geotechnical investigation of the 2013 fatal rockfall in Rockville, Utah*, 214 p.
- Malizia, J.P., 2016, *Effect of density and water content on strength and deformation behavior of clay soils*, 103 p.
- Dirringer, S., 2015, *Landslide Inventory Mapping of the Drift Creek Watershed, Lincoln County, Oregon, using LiDAR Data*, 111 p .
- Glassmeyer, M., 2014, *Geological and geotechnical factors responsible for landslide susceptibility of the Kope Formation in Cincinnati, Ohio*, 198 p.
- Tizzano, A., 2014, *A geotechnical investigation of the October 2011 Cedar City Landslide, Utah*, 199 p.

- Wiles, S., 2013, *Nature and mechanisms of displacements at the Wolf Creek Dam, Jamestown, Kentucky*, 252 p.
- Atallah, N.A., 2013, *An investigation of the origin of Rock City and cause of piping problems at Mountain Lake, Giles County, Virginia*, 126 p.
- Onur, E.M., 2013, *Predicting the permeability of granular soils from grain size distribution*, 106 p.
- Enzweiler, K., 2012, *A geotechnical characterization of the epikarst at the Clearwater dam site, Wayne County, Missouri*, 98 p.
- Nowicki, L. A., 2011, *Engineering geology considerations for realignment of Interstate 70/76 across the landslide at New Baltimore, Somerset County, SW Pennsylvania*, 237 p.
- Fisher, J., 2010, *Collection and analysis of structural data for design of road cuts, I-81 expansion project, Virginia*, 240 p.
- Wendlandt, N.J., 2009, *A geotechnical evaluation of the soil-nailing method of landslide stabilization in Summit County, Ohio*, 198 p.
- Griffin, J., 2008, *Development of a rating classification for rock to be used as toe-bench material*, 120 p.
- Ruffolo, R., 2006, *Variability of the unconfined compressive strength of rock in relation to the number of core samples tested*, 119.
- Barefield, E.H., 2004, *The effect of varying degrees of saturation on the unconfined compressive strength of selected sandstones*, 157 p.
- Shevlin, T.D., 2004, *A geotechnical evaluation of lime kiln dust for use as a stabilizing agent for highway subgrades*, 153 p.
- Morris, M.B., 2004, *A geotechnical characterization of the Pittsburgh Redbeds*, 207 p.
- Andrews, D.C., 2004, *A geotechnical and geomorphological investigation of the Cuyahoga river bank erosion within the Cuyahoga Valley National Park, northeastern Ohio*, 189 p.
- Tinsley, R.S., 2004, *A geotechnical investigation of the New Baltimore landslide along I-76 in Somerset County, Pennsylvania*, 616 p.
- Dokter, C.H., 2004, *Development of rock fall hazard potential maps of State Route 7 along the Ohio River, Ohio, using geographical information system*, 136 p.
- Davis, J.W., 2003, *An evaluation of the effectiveness of catchment ditches along Ohio roadways*, 414 p.
- Martt, D., 2002, *A geotechnical investigation of the sliding failure of the Austin Dam, Potter County, Pennsylvania*, 124 p.
- Amarasinghe, P., 2002, *A geotechnical investigation of the anisotropy of selected "varve-like" sediments*, 93 p.
- Smithmyer, A., 2001, *Storm-induced shallow landslides in colluvial soils along a section of I-77, Ohio*, 164 p.
- Rauber, C., 2001, *Origin, engineering properties, and significance of joint infilling material in shale bedrock at selected sites in Ohio, West Virginia, and northwestern Pennsylvania*, 198 p.
- Brooks, T.D., 2001, *Effect of molding water content on the engineering properties of compacted soils*, 152 p.
- Francisco, B.H., 2001, *A geotechnical evaluation of the potential use of selected waste materials for lime spoil stabilization*, 119 p.
- Manwaring, M.D., 2000, *Effect of calcium oxide on the heave potential of an expansive soil*, 120 p.

- Khan, M.A., 2000, *An investigation of stress relief joints with respect to slope stability problems in eastern Ohio*, 171 p.
- Aceves, A.B., 2000, *The engineering geology of Whiskey Island Marina, Cleveland, Ohio, with special attention to geotechnical aspects of dredged sediments*, 149 p.
- Lichtinger, J.F., 1999, *Effect of bluff toe composition on erosion mechanisms at selected sites along the Pennsylvanian shores of Lake Erie*, 110 p.
- Miller, T.L., 1999, *Development of an automated data acquisition and control unit for the compressed air driven consolidation apparatus*, 142 p.
- Hale, P.A., 1999, *The effect of cyclic heating and cooling, wetting and drying, and freezing and thawing on the compressive strength of selected sandstone rocks*, 128 p.
- Surrena, T., 1998, *A geotechnical investigation of the Upper Ivex Dam with special emphasis on the engineering properties of the reservoir sediments*, 160 p.
- Angelaki, V., 1997, *Evaluation of the Hydrometer and Sedigraph Methods for Size Analysis of Fine-Grained Materials, (with Wells)*, 168 p.
- Highman, T. 1997, *A study of soil joints in relation to bluff erosion along the Lake Erie shoreline*, 166 p.
- Kroenke, M., 1996, *A study of selected landslide complexes in the Bentleyville Area, N.E. Ohio*, 164 p.
- Bonner, C., 1996, *Effect of initial water content and dry density on the swelling potential of a bentonitic clay*, 196 p.
- Coll, F.R., 1994, *Physical and chemical characterization of lime dust for engineering applications*, 162 p.
- Fisher, T.R., 1994, *Evaluation of an improved hammer for conducting the standard penetration test*, 218 p.
- Brown, C.L., 1994, *Relationship between Los Angeles abrasion loss and unconfined compressive strength for carbonate rocks*, 85 p.
- Black, A.B., 1993, *Use of shredded scrap tires in soil stabilization*, 116 p.
- Haney, M.G., 1993, *The relationship between compressive and tensile strength as determined by petrography of selected Ohio sandstones*, 99 p.
- Mitchell, D.J., 1993, *Engineering properties and applications of fly ash produced as a result of solid waste incineration*, 203 p.
- Behringer, D.W., 1992, *A study of selected landslides in the Cincinnati area in relation to human activity*, 164 p.
- Hart, M.L., 1991, *Characterization of lime sludge for engineering applications*, 161 p.
- Onderko, R.J., 1991, *Factors affecting drying time during rapid determination of water content by microwave*, 97 p.
- Rodgers, J.P., 1991, *Predicting the rate of shale undercutting along differentially weathered road cuts*, 203 p.
- Hirt, M.A., 1991, *Determination of unconfined compressive strength of coal for pillar design*, 89 p.
- Cargill, J., 1989, *Evaluation of empirical methods of measuring the uniaxial compressive strength of rocks*, 80 p.
- Auer, K., 1989, *Geotechnical investigation of debris avalanche activity in central Virginia associated with Hurricane Camille*, 147 p.
- Bonelli, R.E., 1989, *Relationship between engineering properties and petrographic characteristics of selected sandstones*, 174 p.

- Cook, B.D., 1988, The effect of stone content, size, and shape on the engineering properties of a compacted silty clay, 128 p.
- Young, B.T., 1988, *Stability of selected road cuts along the Ohio River as influenced by valley stress relief joints*, 164 p.
- Taft, A.G., 1988, *A geotechnical investigation of ash residue from solid waste incineration*, 148 p.
- Roeper, T.R., 1988, *A geotechnical and hydrogeological investigation of two landfills in Portage County, Ohio*, 193 p.
- McKim, M.J., 1990, *A geotechnical investigation of mine subsidence incidents in selected areas of Madisonville, Kentucky*, 360 p.
- Brock, D., 1988, *Engineering characteristics of some fissile and non-fissile shales from northeast Ohio*, 100 p.
- Illes, R.J., 1987, *A geotechnical evaluation of abandoned strip mines for sanitary landfill purposes*, 282 p.
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