

## CUMULATIVE INDEX

### HIGHWAY GEOLOGY SYMPOSIUM PROCEEDINGS

#### VOLUME I - First, Second, Third and Fourth Highway Geology Symposia

First Annual Symposium on "Geology As Applied To Highway Engineering"  
April 14, 1950 - Department of Highways - Richmond, Virginia.

Parrott, W. T., "Synopsis Of First Highway Geology Symposium."  
(Papers presented not published).

Second Annual Symposium on "Geology As Applied To Highway Engineering"  
February 16, 1951 - Virginia Department of Highways - Richmond,  
Virginia.

Cornthwaite, A. B., "The Adhesion Of Bituminous Films To Highway  
Aggregates."

Cooper, B. N., Dr., "Geological Enterprise In Virginia - Present And  
Future."

Whitmore, Frank C., Jr., "The Importance Of Geology In Military  
Highway Construction."

McConnell, Duncan, Dr., "Detrimental Minerals In Concrete Aggregate."

Granger, A. T., "What Does The Engineer Expect Of The Geologist?"

Hicks, L. D., "The Use Of Plate Bearing Tests In The Thickness Design  
Of Flexible Pavements."

DeBuchananne, George D., "The Control Of Groundwater In Consolidated  
Rocks."

Wolf, D. O., "The Identification Of Rock Types."

Wheeler, Frank W., "The Construction Of Highway Bridges And Separation  
Structures In Unconsolidated Sediments."

Third Annual Symposium on "Geology As Applied To Highway Engineering"  
February 29, 1952 - Virginia Department of Highways and Virginia  
Military Institute - Lexington, Virginia.

Dobrovoly, Ernest, "Application Of Geology To Highway Work As  
Practiced By The States, A Questionnaire Summary."

Nicol, Allen H., "Studies Of Aggregates On Okinawa."

Nesbitt, Robert H., "Problem Minerals In Concrete Aggregates Of The  
Southeastern States."

Anderson, Rex S., "Geology And Highway Engineering - A Continuing  
Mission."

Baker, R. F., "The Design Of The Slopes Of Highway Rock Excavations In  
West Virginia."

Hadley, Jarvis B., "The Geology Of A Highway Slide At Gatlinburg, Tennessee."  
Scroggie, Everette, "The Application Of Geology To Bridge Foundations."  
Parrott, W. T., "Geological Problems In The Design And Construction Of Highways In Virginia."

Fourth Annual Symposium on "Geology As Applied To Highway Engineering" February 20, 1953 - Morris Harvey College and West Virginia State Road Commission - Charleston, West Virginia.

Gregg, L. E., and Havens, James H., "Applications Of Geology To Highway Engineering In Kentucky."  
Marshall, Harry E., "Some Experiences Of The Department Of Highways With Landslides In Ohio."  
McNeal, John D., "The Application Of Geology To Highway Subdrainage In Kansas."  
Woods, K. B., Johnstone, J. C., and Yoder, E. J., "Some Engineering Problems Associated With The Preglacial Marrietta River Valley."  
Price, Paul H., "The Landslide Problem."  
Cavendish, Ray, "Landslides Affecting West Virginia Roads."  
Eckel, Edwin B., "Contributions By The U. S. Geological Survey To Highway Engineering Research."  
Philbrick, Shailer S., "Design Of Deep Rock Cuts In The Conemaugh Formation."

**VOLUME II** - Fifth and Sixth Highway Geology Symposia

Fifth Annual Symposium on "Geology As Applied To Highway Engineering" March 16, 1954 - The Ohio State University and the Ohio Department of Highways.

Melvin, John H., "Correlation Of Geological Studies By Various Governmental Agencies In Ohio."  
Hyland, John R., "Aids Of The Ohio Geologic Survey For Highway Engineers."  
Warrick, W. A., "Application Of Geology To Highway Engineering As Seen By A Highway Engineer."  
Mason, Neil E., "Ohio's Experience In The Use Of Geophysical Methods In Subsurface Exploration."  
Norris, Stanley E., "Importance Of Ground Water Studies To Highway Engineering."  
Lewis, D. W., "Effect Of Coarse Aggregate On Concrete Durability."  
Mintzer, Olin., "Geology In The Engineering Curriculum, The Highway Engineer's Viewpoint."  
Supp, Carl W. A., "Geological And Soils Engineering On Ohio Turnpike

Project No. 1."

\*Barger, Lewis, "Three Dimensional Aspects Of Landslides."

Sixth Annual Symposium on "Geology As Applied To Highway Engineering"  
February 18, 1955 - Johns Hopkins University and The Maryland State  
Roads Commission.

Singewald, Joseph T., Dr., "The Role Of The Geological Surveys In  
Geology As Applied To Highway Engineering."

Barber, Edward S., "Geology And Foundations."

Smith, Preston C., "Use Of Aerial Photographs In Engineering - Soil  
Mapping."

Melville, Phillip L., "Concrete Aggregate Reaction In Virginia."

Mobley, Arthur B., "Earth Resistivity Indicates Subsurface Geology."

Supp, Carl W. A., "Engineering Geology Of The Chesapeake Bay Bridge."

Allen, Alice S., "Sources Of Information On Ground Conditions."

**VOLUME III** - Seventh, Eighth, Ninth and Tenth Highway Geology Symposia

Seventh Annual Symposium on "Geology As Applied To Highway  
Engineering" February 24, 1956 - N. C. State Highway and Public Works  
Commission - Raleigh, North Carolina.

Baker, Robert F., "Engineering And Landslides."

Mather, Bryant, "Application Of Petrographic Procedures To Highway  
Engineering."

Deuterman, Martin, "Investigation Of Bridge Foundations."

Laursen, Emmett M., "River Bed Scour At Bridge Foundations."

Laurence, Robert A., "Geologic Features Of The Eastern States As  
Related To Highway Engineering."

Bickel, J. O., "Equipment Used In Geological Engineering."

McCullough, Charles R., "Aerial Photos And Highway Engineering."

Eighth Annual Symposium on "Geology As Applied To Highway Engineering"  
February 15, 1957 - The Pennsylvania State University and Commonwealth  
of Pennsylvania - Department of Highways.

Eckel, Edwin B., "New Developments In The Study Of Landslides."

Gary, Carlyle, Dr., "Geological Information In Pennsylvania For The  
Highway Engineer."

Engel, Harry J., "Bridge Foundation Experiences."

Weeden, Harmer A., "Pedology Helps The Highway Engineer."

Bird, Paul H., "Experience In Designing Rock Slopes In New York  
State."

Baker, William O., "Photogrammetry In Practice."

Ninth Annual Symposium on "Geology As Applied To Highway Engineering"  
February 21, 1958 - University of Virginia and Virginia Department of  
Highways.

Gay, Archer B., "Highway Geology And The Contractor."  
Legget, Robert F., "Geology And Transportation Routes."  
Maner, Alfred W., "Soils And Geological Engineering Partners, Not  
Competitors."  
Rice, James M., "A Rapid Method For Determining The Resistance Of  
Ledge Rock To Freezing."  
Dole, George J., "Ammonium Nitrate As An Explosive."  
Tuttle, Curtis R., "Application Of Seismology To Highway Engineering  
Problems."

Tenth Annual Symposium on "Geology As Applied To Highway Engineering"  
February 20, 1959 - Georgia Institute of Technology and Georgia State  
Highway Department - Atlanta, Georgia.

Felix, George D., "Geology As An Aid To Right-Of-Way."  
Furcron, A. S., Dr., "Distribution And Character Of Stone For  
Aggregate In Georgia."  
Marshall, Harry E., "Design Considerations In The Treatment Of Soft  
Foundations."  
Upham, Charles M., "The Use Of Geological Investigations In Foreign  
Consulting Work."  
Seeger, Ralph W., "Highway Material Survey In West Virginia."  
Fletcher, G. A., "Geology In Foundation Engineering."  
Belcher, Donald J., "Applied Geomorphology."

Eleventh Annual Highway Geology Symposium - February 26, 1960 -  
Florida State University - Tallahassee, Florida.

Vernon, Robert O., "The Geological Distribution Of Highway Base Course  
Material And Aggregate In Florida."  
Mather, Bryant, "Petrology Of Concrete Aggregate."  
Carey, W. N., Jr., and Schmidt, W. J., "The AASHO Road Test: A  
Progress Report."  
Michener, P. Z., "Preliminary Subsurface Investigation Of The  
Chesapeake Bay Crossing."  
Fritz, Axel M., Jr., "The MD Engineering Seismograph And Its  
Application To Highway Engineering."  
Bruun, Per, "Beach Erosion And Protection In Florida."  
Lynch, S. A., and Weaver, Paul, "Pavement Disruption By Recent Earth  
Movements."  
Radzikowski, Henry A., "Rock And Earth In The Highway Program."

Twelfth Annual Symposium on "Geology As Applied To Highway Engineering" - February 10-11, 1961 - Engineering Experiment Station, Bulletin Number 24 - The University of Tennessee, Knoxville.

- Young, Norman C., and Pierce, T. R., "Principal Highway Engineering Characteristics Of Some Tennessee Formations."
- Goodwin, William A., "Evaluation Of Pavement Aggregates For Non-Skid Qualities."
- Nichols, Donald R., and Yehle, Lynn A., "Highway Construction And Maintenance Problems In Permafrost Regions."
- McNutt, Charles, "Highway Salvage Archaeology."
- Officer, Charles B., "Use Of Continuous Seismic Profiler (Sparker) In Geologic Investigations For Vehicular Tunnel And Bridge Crossings."
- Bailey, Reed W., "Madison River - Hebgen Lake Earthquake And Highway Problems."
- Stuart, W. Harold, "Geological Conditions Complicating Highway And Railroad Relocations In The Northwest."
- Moore, R. Woodard, "Observations On Subsurface Explorations Using Direct Procedures And Geophysical Techniques."
- Dorman, C. W., "The Economics Of Natural Resource Valuation."
- Gutschick, Kenneth A., "Altering Physio-Chemical Characteristics Of Clay-Bearing Soils With Lime."

Thirteenth Annual Highway Geology Symposium - March 16, 1962 - Phoenix, Arizona.

- Hall, Bruce M., "Status Of Geological Registration."
- Gallaher, B. J., "Desert Materials - Types And Uses."
- Eckel, E. B., "Use Of Engineering Geology Maps."
- Smith, P. C., "Purpose Of The Highway Materials Inventory."
- Sergent, B. D., "Soil Mechanics In The Southwest."
- Mitchell, Stanley N., "Problems Facing The Engineer And The Geologist In A Highway Department Employing An Engineering Geologist."
- Kersch, George A., "Regional - Aerial Geological Investigations In Highway Geology."

Fourteenth Annual Highway Geology Symposium - March 22, 1963 - A. & M. College of Texas - College Station, Texas, Texas Highway Department, and the Texas Bureau of Economic Geology.

- Pelzner, Adrian, "Applications Of Agricultural Soil Surveys To Highway Geology."
- Laughter, C. N., "Correlation Of Culvert Performance And Soil Conditions."
- Henry, H. A., "Engineering Geology Operations In The Texas Highway Department."

Benson, Gordon R., "Geology - A Vital Part Of Subsurface Engineering In Illinois."  
Welp, Theodore L., "Materials Geology, Co-ordinator Of The Aggregate Inventory."  
Lemish, John, "Carbonate Aggregate Research."  
Moore, Richard T., "The Effect Of Fractured Ground On Highway Structure Design."  
Leith, C. J., and Gupton, C. P., "Some Geologic Factors In Highway Slope Failures In North Carolina."  
Drew, E. D., "The Development And Utilization Of Engineering Geology In The California Division Of Highways."

Fifteenth Annual Highway Geology Symposium - March 19, 1964 - Missouri Geological Survey and Water Resources - Rolla, Missouri.

Helmer, R. A., "The Duties And Training Of A Geologist In The Oklahoma State Highway Department."  
Grimes, Walter W., "Geology And Foundation Problems Of Glacial Drift In Eastern South Dakota."  
Migliaccio, Ralph R., "Engineering And Construction Problems In The Valdez District, Alaska."  
Landrum, J. D., "A Foundation Investigation Of Cherokee Cave Under Route I-55, City Of St. Louis."  
Lounsbury, W. R., and Schuster, R. L., "Petrology Applied To The Detection Of Deleterious Materials In Aggregates."  
West, T. R., and Aughenbaugh, N. B., "The Role Of Aggregate Degradation In Highway Construction."  
Heagler, John B., Jr., "Mineralogy And Soil Stabilization."

Sixteenth Annual Highway Geology Symposium - March 25-26, 1965 - University of Kentucky - Lexington, Kentucky.

Goodwin, W. A., "The Application Of Geology In The Benefication Of Aggregates."  
Laughlin, G. R., Scott, J. W., and Havens, J. H., "Freeze-Thaw Characteristics Of Aggregates."  
Lounsbury, R. W., and West, T. R., "Petrography Of Some Indiana Aggregates In Relation To Their Engineering Properties."  
Sherwood, W. Cullen, Dr., "The Role Of Aggregate Type In Pavement Slipperiness."  
Smith, Preston C., "Landslide Research."  
Struble, Richard A., "Shallow Subsurface Exploration Utilizing Airphoto Interpretation And Geophysical Techniques."  
Dobrovolsky, Ernest, "The Highway Research Board And Its Committee On Engineering Geology."

Seventeenth Annual Highway Geology Symposium - April 21-23, 1966 -  
Iowa State University - Ames, Iowa, Iowa State Highway Commission.

- Burgat, Virgil A., "Engineering Geology In Kansas Highway Construction."
- Mitchell, Robert E., "Seismic And Resistivity Maturity."
- Michael, Robert D., "Techniques Of Engineering Geology In Evaluation Of Rock Cores For Construction Materials Sources."
- Blatter, Robert E., "The Effects Of Peat Deposits On Highway Design In Iowa."
- Eversoll, Duane A., and Burchett, Ray, "Nebraska Geology And Highway Engineering Procedures."
- Bruce, Richard L., "Landslides In The Pierre Shale Of South Dakota."
- Kneller, William A., "A Study Of Chert Aggregate Reactivity Based On Observations Of Chert Morphologies Using Electron Optical Techniques."
- Fritz, Axel M., "Engineering Geophysics: Its Use And Abuse."
- Ledbetter, John F., "Aspects Of Using A Borehole Deflectometer To Diagnose An Unstable Rock Slope."
- Welp, T. L. and Others, "Panel Discussion On Chemical And Physical Reactions Of Carbonate Aggregates In Concrete."
- McElherne, T. E., "Introduction."
- Lemish, John, "Background On Carbonate Aggregate Behavior In Concrete."
- Mather, Katharine, "Test Methods Used In Investigating Alkali - Carbonate Reaction."
- Gillott, J. E., "Concrete Performance As Related To The Behavior Of Carbonate Aggregates."
- Newlon, Howard, "Chemical And Physical Reactions Of Carbonate Aggregates In Concrete."
- Axon, Ely O., "Concrete Performance As Related To The Behavior Of Carbonate Aggregates."
- Mather, Katharine, "Waterways Experiment Station Experience With Alkali - Carbonate Reaction."
- Newlon, Howard, "Physical Test Methods Used In Investigating Aggregates."
- Dunn, James, "Distress Of Aggregate By Absorbed Water."
- Lemish, John, "Concrete Weathering Studies."
- Panelists and Audience, "Questions And Answers."

Eighteenth Annual Highway Geology Symposium - April 20-21, 1967 -  
Purdue University and Indiana Highway Commission - Lafayette, Indiana.

- Woods, K. B., "Some Highway Problems Of The United States Correlated With Physiographic Provinces."
- Miles, R. D., "Anyone Can Interpret Soil Groups From Aerial Photographs."
- Struble, R. A., and Mintzer, O. W., "Combined Investigation Techniques

For Procuring Highway Design Data."  
Berliant, R. F., and Sanborn, A. F., "Comprehensive Investigations Facilitate Design Of Interstate Highways Over Bottomland Soils."  
Johnson, Robert B., "The Use And Abuse Of Geophysics In Highway Engineering."  
Vineyard, Jerry D., and Williams, James H., "A Foundation Problem In Cavernous Dolomite Terrain."  
Fredericksen, Walter, "Stabilization Of Abandoned Mine Under An Interstate Highway."  
Hotler, C. F., "Soil Survey Practices In Indiana."  
French, Robert R., and Carr, Donald C., "Geologic Factors Affecting The Exploration For Mineral Aggregates In The Indianapolis Area."  
Malott, D. F., "Shallow Geophysical Exploration By The Michigan Department Of State Highways."  
Panel Members, Panel Discussion: Preliminary Exploration For Highways With Emphasis On Local Problems."

Nineteenth Annual Highway Geology Symposium - May 16-17, 1968 - West Virginia Geological and Economic Survey, State Road Commission of West Virginia, West Virginia University Department of Geology, and West Virginia University College of Engineering.

Donaldson, Alan C., "Geology Of West Virginia With Special Reference To The Field Trip Area."  
Hayes, Russel R., and Worrell, Donald T., "Geologic And Engineering Implications Of Poor Quality Sandstone From Simulated Highway Tests."  
Leach, Richard C., " The Problem And Correction Of Landslides In West Virginia."  
Thompson, Berke L., and Long, Donald C., "A Controlled Fill Over Sediments Of Ancient Lake Monongahela Near Fairmont, West Virginia."  
Seeger, Ralph W., "Geological Investigations For A Trans-Andean Highway."  
Smith, James D., "Geology Its Relation To The Design Of The East River Mountain Tunnels."  
Cooper, Byron N., "Geology Of Big Walker Mountain Tunnel On Interstate Route 77, Wythe And Bland Counties, Virginia."  
McGrain, Preston, and Dever, Garland R., Jr., "The Geometry Of Limestone Aggregate Sources In Kentucky's Appalachian Region."  
Arkle, Thomas, Jr., and Brock, Samuel M., Jr., "The Geology Of Construction Sand And Gravel Resources In West Virginia."

Twentieth Annual Highway Geology Symposium - April 16-19, 1969 -  
University of Illinois - Urbana-Champaign, Illinois.

- Thornburn, T. H., and Liu, T. K., "Soils Of Illinois And Their Engineering Characteristics."  
Brownfield, Robert L., "A Geotechnology Profile In Jo Davies County, Illinois."  
Keene, Kenneth R., "Problems With Highway Cuts In Loess Near East St. Louis, Illinois."  
Harvey, Richard D., "Fracture Surfaces Of Carbonate Aggregates: A Scanning Electron Microscope Study."  
Gamble, James C., Hendron, A. J., Jr., and Way, Grover C., "Foundation Exploration For Interstate 280 Bridge Over Mississippi River Near Rock Island, Illinois."  
Ferland, Jack A., "Seismic Mapping Of Cavities And Voids."  
Thompson, M. R., "Properties Of Lime-Treated Soils."

Twenty-First Annual Highway Geology Symposium - April 23-24, 1970 -  
The University of Kansas - Lawrence, Kansas, State Highway Commission of Kansas, State Geological Survey of Kansas.

- Wilson, Frank W., "Highway Problems And The Geology Of Kansas."  
Goodfield, Alan G., "Rock Falls And Landslides Along State Highway 79 At Clarksville, Missouri."  
Hammerquist, D. W. and Hoskins, Earl, "Correlation Of Expansive Soil Properties And Soil Moisture With Pavement Distress In Roadways In Western South Dakota."  
Taylor, Charles L., "Geometric Analysis Of Rock Slopes."  
Sennett, Robert B., "Geologic Factors In Design Of Excavated Rock Slopes."  
Jenkins, Gomer, Jr., "Hydraulic Borrow Materials In Urban Areas."  
Eversoll, Duane A., "Amphibious Drilling Rig."  
Whitfield, John W., and Williams, James H., "Underground Transportation Routes And Quarry Practices In The Kansas City, Missouri-Kansas Area."  
West, Terry R., "Application Of Remote Sensing To Highway Locations."  
Stallard, Alvis H., "Remarks On Kansas Highway Research Project In Remote Sensing For Soils And Geologic Mapping."  
Hartley, Alan, "The Influence Of Geological Factors Upon The Mechanical Properties Of Road Surfacing Aggregates."

Twenty-Second Annual Highway Geology Symposium - April 22-23, 1971 -  
The University of Oklahoma - Norman, Oklahoma, Oklahoma Geological  
Survey, Oklahoma Department of Highways.

- Mankin, Charles J., and Johnson, Kenneth S., "Geology of Oklahoma - A  
Summary."
- Hayes, Curtis J., "Engineering Classification of Highway - Geology  
Problems In Oklahoma."
- Laguros, Joakim G., and Kumar, Subodh, "Predictability Of Shale  
Behavior."
- Deere, Don U., and Gamble, James C., "Durability - Plasticity  
Classification Of Shales And Indurated Clay."
- Bayless, Glen, "Post-Construction Performance Of P-18 Bridge Abutments  
And Approach Fills, Eastern Oklahoma."
- Parrott, William T., "Control Of A Slide By Vertical Sand Drains,  
U. S. Route 220, Alleghany County, Virginia."
- Merten, Fred K., "Straight Creek Tunnel Construction, Route I-70,  
Colorado."
- Ivey, John B., "Highway Geology Feasibility Study, Luluabourg To  
Mbuji-Mayi Republic Of Congo (Kinshasa)."
- Cleaves, Arthur B., "The Camino Marginal, Peru."
- Gedney, David S., "A Design Approach To Rock Slope Stability."
- Thompson, Berke L., "The Use Of Air As A Drilling Medium For  
Subsurface Investigation."
- Johnson, B. J., "Penetrohammer, The Penetrometer Machine And Its  
Application."

Twenty-Third Annual Highway Geology Symposium - April 27-28, 1972 -  
Virginia Highways Research Council, Virginia Department of Highways,  
Virginia Division of Mineral Resources, Old Dominion University -  
Hampton, Virginia.

- Jimenez, John, "Embankment Failures On The Tijuana - Ensenada Turnpike  
In The Lower California Peninsula, Mexico."
- Branthoover, Gerald L., "Geological Engineering Investigation Of Talus  
Slopes In Lewiston Narrows, Pennsylvania."
- Herbold, Keith, "Cut Slope Failure In Residual Soil."
- Vogelsand, W. H., and Munyan, A. C., "Engineering Geology Of The Semi-  
Indurated Strata Of The Virginia Coastal Plain."
- Thomas, Carl O., "Remote Sensing Applications To Near Surface  
Geology."
- Mitchell, D. A., and Brack, C., "Ecological Impact Of Hydraulic  
Construction Methods In Georgia."
- Whitlow, B. S., "Investigation Of Deterioration In Concrete Roadway  
Slab Of The Robert E. Lee Bridge, Richmond, Virginia."
- Baldwin, J. S., and Dawson, J. W., "Effects Of Angular Sands On  
Portland Cement Concrete."
- Sennett, R. B., "Engineering Geology, Environmental Geology And Land

Use."

Twenty-Fourth Annual Highway Geology Symposium - August 9-10, 1973 - Wyoming State Highway Department - Sheridan, Wyoming.

Miller, Daniel, "Wyoming Geology" (Abstract Only).

Royster, David L., "Highway Landslide Problems Associated With The Escarpment Areas Of The Cumberland Plateau In Tennessee."

Wisehart, Richard M., and Wagner, J. Ross, "Slope Stability And Engineering Consequences Of A Stream Capture, Bluff Creek, Northern California."

Edwards, Larry J., "Engineering Geologic Map Units For Highway Planning."

Patty, Tom S., "Accelerated Polish Test For Coarse Aggregate."

McKittrick, David P., and Gedney, David S., "Reinforced Earth For Highway Applications."

Bukovansky, Michael, "Engineering Geology And Rock Mechanics Help To Design A Freeway In Northern Spain."

Gilmore, John B., "Landslide Problems On The West Approach To Eisenhower (Straight Creek) Tunnel, Colorado."

Everitt, Martin C., and Holland, T. W., "The Shell Canyon, Wyoming Landslides."

Bauer, Edward, "Application Of Geology To Highway Construction In Mountain Terrain, Lovell-Burgess Junction, Wyoming."

Patty, Tom S., "Investigation Of Failing Concrete In Houston, Texas, Caused By Unsound Cement."

Twenty-Fifth Annual Highway Geology Symposium - May 23-24, 1974 - N. C. Department of Transportation and Highway Safety, N. C. Department of Natural and Economic Resources, and N. C. State University - Raleigh, North Carolina.

Keene, Kenneth R., "An Evaluation Of Sand Drain Installation Methods In Recent Alluvium."

Conrad, Stephen G., "Introduction Of The Geology And Mineral Resources Of North Carolina."

Royster, David L., "Construction Of A Reinforced Earth Fill Along I-40 In Tennessee."

Brown, L. F., Jr., and Fisher, W. L., "Environmental Atlas Of The Texas Coastal Zone And Its Role In Land Use Planning."

Sowers, George F., "Geological And Seismic Engineering For Nuclear Power Plants In The Southeast."

Welby, Charles W., "ERTS And Multispectral Photography."

Goughnour, Roger D., and Mattox, Robert M., "Subsurface Exploration State Of The Art."

Sams, Clay E., and Gardner, Charles H., "Engineering Geology Of I-26 Landslides, Polk County, North Carolina."

\*Eades, James L., Dr., "Lime Stabilization."

\* Paper Not Published

Twenty-Sixth Annual Highway Geology Symposium - August 13-15, 1975 -  
Idaho Transportation Department, Division of Highways - Boise, Idaho.

- \*Bond, John G., "General Geology Of Northern Idaho And Western Montana  
And Its Implication On Highway Construction."  
Mathis, Don H., "Application Of Geotechnique To Design And  
Construction In North Idaho."  
Larsen, Ronald E., "Seismic Designed Backslopes And Evaluation In A  
Structurally Disturbed Basalt Section."  
Welch, J. David, "Environmental Geology Survey, Regional Land Use And  
Intermodal Transportation Planning, Northeastern Pennsylvania."  
Steward, John E., "Use Of Woven Plastic Filter Cloth As A Replacement  
For Graded Rock Filters."  
Garner, L. E., "Aggregate Resource Conservation In Urban Areas."  
Patty, Tom S., "Petrography As Related To Potential Skid Resistance Of  
  
Paving Aggregates Used On Texas Highway Projects."  
Bailey, Allen D., "Rock Types And Seismic Velocities Versus  
Rippability."  
Johnson, Edgar L., "Traffic Safety Instrumentation, Foundation  
Landslide, Oregon."  
Farnham, Paul R., "In-Situ Measurement Of Shear-Wave Velocities For  
Engineering Applications."  
Bartholomew, Charles L. and Ireland, Herbert O., "The Use Of Organic  
Topsoils As Construction Materials."  
Kumar, S.; Annamalai, M.; and Laguros, J. G., "A New Analytical  
Approach To Split Tensile Strength Of Pavement Materials."  
Thronton, Sam I., and Arulanandan, Kandiah, "Collapsible Soils,  
State-Of-The-Art."  
Weatherby, David E., and Chapman, Ronald K., "Design And Installation  
Of An Earth Tieback Support System."  
Denness, Bruce, and Smith, Robert M., "A Landslide In Pleistocene  
Deposits: Columbia (S. Am.)."  
Wilmarth, Verle R.; Kaltenbach, John; Lenoir, William B., "Skylab  
Explores The Earth."

Twenty-Seventh Annual Highway Geology Symposium - May 19-21, 1976 -  
Florida Department of Transportation and University of Florida -  
Orlando, Florida.

- Wisner, William A., "Florida Geology And Sinkholes."  
Fountain, Lewis S., Sr., "Subsurface Cavity Detection: Field  
Evaluation Of Gravity, Radar, And Earth Resistivity Methods."  
Morey, Rexford M., "Detection Of Subsurface Cavities By Ground  
Penetrating Radar."  
Brooks, H. K., "Offshore Foundations Evaluation By Seismic Techniques"

\* Paper Not Published

- Omes, Gildas, "Applications Of Geophysical Methods To The Detection Of Shallow Karstic Cavities."
- Benson, Richard C., "Applications And Economics Of Engineering Geophysics."
- Moore, Harry L., "Understanding The Phenomenon Of Piping."
- McGrain, Preston, "Lapis-Type Features In Kentucky Karst Region."
- Williams, Don E., "Underground Construction In The Development Of Trails In A Large Cavern System In The Southern Ozark Mountains Karst Terrain."
- Strohm, W. E., Jr., "Shale Deterioration Related To Highway Embankment Performance."
- Kumar, Subodh, "Shrinkage Factor For Fill Construction Iowa."
- Hammond, Tom, and Huckle, Horace F., "A Resume' Of A Study Between The Soil Conservation Service And The National Aeronautics And Space Administration To Determine If Remote Sensing Could Be Technically And Economically Developed As A Beneficial Tool To Assist Soil Scientists In Selecting Spots For Field Observations."
- West, Terry R., "Evaluation Of Gravel Deposits Using Remote Sensing Data, Wabash River Valley North Of Terra Haute, Indiana."

Twenty-Eighth Annual Highway Geology Symposium - August 10-12, 1977 - South Dakota Department of Transportation, Geological Survey, and South Dakota School of Mines & Technology - Rapid City, South Dakota.

- Carrigan, Mark C., and Shaddrick, David, "Homestake's Grizzly Gulch Tailings Disposal Project."
- Lovell, C. W., Bailey, M. J., and Wood, L. E., "Point Load Strength And Hardness Measures Of Shale."
- Youell, James R., "Angle Hole Drilling Approach For Highway Engineering Data Collecting."
- Burgat, Virgil A., "Cut Slope Design Based On Stability Characteristics."
- Bauer, Edward J., "Reinforced Earth Fill On Steep Mountain Terrain, Highway 14a, Big Horn County, Wyoming."
- Hanna, Bruce E., "The Use Of Reinforced Earth Walls As Bridge Abutments."
- Meadors, G. S., Jr., "The Geology And Construction Techniques Of The Second Hampton Roads Bridge Crossing, Norfolk, Virginia."
- Grimes, Walter W., "Geotechnical Investigation For The Des Plaines River System Tunnels And Shafts."
- Gardner, Charles H., and Tice, J. Allen, "A Study Of The Forest City Creep Slide On The Oahe Reservoir, South Dakota."
- Glass, F. R., "Horizontal Drains As An Aid To Slope Stability On I-26, Polk County, North Carolina."
- Royster, David L., "Some Observations On The Use Of Horizontal Drains In The Correction And Prevention Of Landslides."

Twenty-Ninth Annual Highway Geology Symposium - May 3-5, 1978 -  
Maryland State Highway Administration and Geological Survey -  
Annapolis, Maryland.

- Cleaves, Emery T., "Geologic Contrasts Across The Fall Zone."  
Rabchevsky, George A., and Brooks, David J., "Landsat Overview Of Fall  
Line Geology."  
Langer, William, H., and Obermeier, Stephen F., "Relationship Of  
Landslides To Fractures In Potomac Group Deposits, Fairfax  
County, Virginia."  
Winter, Ernest, and Beard, Brian, "The "O" Street Slide And Its  
Geologic Aspects, Washington, D. C."  
Supp, Carl W. A., "Engineering Geology Of The Chesapeake Bay Bridges."  
Hoover, Earl G., "Health And Environmental Assessment - A Major  
Geologic Concern On The Fall Line."  
Frohlich, Reinhard K.; Maloney, James P.; and Lowry, Bruce E.,  
"Control Of Vibrations From Commercial Blasting In Urban Areas."  
Witort, Edward Anthony, Jr., "Effect Of Fall Line Geology On Design  
Of US-64, Rock Mount, North Carolina."  
Guilbeau, Leonard H., "Design Alternatives For Construction Over  
Compressible Materials."  
Monahan, Edward J., "Weight-Credit Foundation Construction Using Foam  
Plastic As Fill."  
Lovell, Charles William, and Lovell, Janet Elaine, "Measure The Voids,  
  
Not The Solids."  
Baker, Wallace Hayward, "Compaction Grouting Methods For Control Of  
Settlements Due To Solt-Ground Tunneling."  
Brahma, Chandra S., "Significance Of Groundwater And Methods Of Ground  
Control In Tunneling."  
Collison, Gary H., "Exploration And Geochemical Reporting For The Rock  
Tunnels And Station Of The Mondawmin Section Of The Baltimore  
Region Rapid Transit System."  
Siegel, Ronald A.; Kovacs, William D.; Lovell, Charles William, "New  
Method Of Shear Surface Generation For Stability Analysis."  
Brahma, Chandra S., and Ku, Chih-Cheng., "Geotechnical Perspective On  
Slurry Wall System."

Thirtieth Annual Highway Geology Symposium - August 8-10, 1979 -  
Office of Federal Highway Projects, Federal Highway Administration -  
Portland, Oregon.

- Chassie, Ronald G., "Landslide Tests Reinforced Earth Wall."  
Mullarkey, J. Ray, "Fabrics In The Highway: The State Of The Art In  
Civil Engineering Applications."  
Watkins, Reynold K., "Structural Performance Of Buried Corrugated  
Polyethylene Tubing."

Hatheway, Allen W., "Revision Of The 1967 AASHTO Manual On Foundation Investigations."

Jackson, Newton C., "Summary Of Use Of Sawdust For Highway Fills."

Ward, Timothy J., "Modeling Erosion And Sedimentation From Roadways."

Plum, Robert L., "Decision And Risk Analysis As A Practical Tool For Geotechnical Engineers And Geologists."

Kuenzli, James R., "Stabilization Of The Upper Portion Of The Hat Creek Landslide."

Royster, David L., "Landslide Remedial Measures."

West, Terry R., "Petrographic Examination Of Aggregates Used In Bituminous Overlays For Indiana Pavements As Related To Their Polishing Characteristics."

Miller, Henry J., "Geophysical Investigations Of Hampton Roads For Crossing Of Route I-664."

Pope, David H., "A Demonstration Project For Deicing Of Bridge Decks."

Lovell, C. W., "Compaction Prestress Makes A Difference."

Thirty-First Annual Highway Geology Symposium - August 13-15, 1980 - Bureau of Economic Geology and The University of Texas at Austin in Cooperation with Texas Department of Highways and Public Transportation at Austin, Texas.

Moore, H. L., "Karst Problems Along Tennessee Highways: An Overview."

Simpkins, W. W.; Gustavson, T. C.; Alhades, A. B.; Hoadley, A. D., "Impact Of Evaporite Dissolution And Collapse On Cultural Features In The Texas Panhandle And Eastern New Mexico."

Sansom, J. W., Jr., Shurbet, D. H., "Microearthquake Studies In Texas."

Abeyesekera, R. A., and Lovell, C. W., "Characterization Of Shales By Plasticity Limits, Point Load Strength And Slake Durability."

Wilson, John, "The Texas Natural Resources Information System."

Lo, T. Y. K., and Lovell, C. W., "The Geotechnical Data Bank."

Patty, T. S., "Engineering Petrography: Highway Applications."

Allen, P. M., "Evaluation Of Channel Stream Bank Erosion In Urbanizing Watersheds In The Blackland Prairie, North-Central Texas."

Yelderman, J. C., Jr., "The Type Area Concept: A Practical Method Of Integrating Natural Resources With Planning, Development, Maintenance, And Landscaping Of Transportation Systems."

Whittecar, G. R., and Simpkins, W. W., "Drumlins At Potential Sources Of Sand And Gravel In Glaciated Regions."

Thirty-Second Annual Highway Geology Symposium - May 6-8, 1981 -  
Tennessee Department of Transportation, Division of Soils and  
Geological Engineering - Gatlinburg, Tennessee.

- Glass, F. R., "Unstable Rock Slopes Along Interstate 40 Through Pigeon River Gorge, Haywood County, North Carolina."
- Tice, J. Allan, "The Hartford Slide - A Case History."
- Aycock, James H., "Construction Problems Involving Shale In A Geologically Complex Environment, State Route 32 - Appalachian Corridor "S", Grainger County, Tennessee."
- Mathis, Henry, "Temporary Landslide Corrective Techniques Avert Catastrophe."
- Wright, E. M., "Remedial Corrective Measures And State Of The Art For Rock Cut Slopes In Eastern Kentucky."
- Watts, C. F., and West, T. R., "A System For Rapid Collection And Evaluation Of Geologic-Structure Data For Rock Slope Stability Analysis."
- Hale, B. C., and Lovell, C. W., "Prediction Of Degradability For Compacted Shales."
- Wilson, Charles; Pope, David; and Sherman, William, "A Review Of The Progress Of The Wyoming Heat Pipe Program."
- Jones, Don H.; Bell, Bruce S.; and Hansen, Jack H., "The Application Of Induced Polarization In Highway Planning, Location, And Design."
- Byerly, Don W., and Middleton, Lloyd M., "Evaluation Of The Acid Drainage Potential Of Certain Pre-Cambrian Rocks In The Blue Ridge Province."
- Winchester, P. W., Jr., "Some Geotechnical Aspects Of Early Planning Along Corridor K, Appalachian Development Highway; Section Between Andrews And Almond, North Carolina."

Thirty-Third Annual Highway Geology Symposium - September 15-17, 1982  
Colorado Geological Survey, USDA Forest Service, FHWA, Colorado  
Department of Highways - Vail, Colorado.

- Bennett, Warren, "Experimental Compaction Of Collapsible Soils At Algodones, New Mexico."
- Ivey, John B., and Hanson, Jerome B., "Engineering Geology, Relocation Of State Highway 91, Climax Mine Area, Summit County, Colorado."
- Holmquist, Darrel V., "Slope Stability Consideration Of The Colorado State Highway 91 Relocation."
- Pakalnis, Rimas, and Lutman, T., "Application Of Vacuum Horizontal Drainage."
- Wyllie, Duncan C., and Wood, David F., "Stabilization Of Toppling Rock Slope Failures."
- Robinson, Charles S., and Cochran, Dale M., "Engineering Geology Of Vail Pass I-70."
- Hynes, Jeffrey L., "Geology Of The Glenwood Canyon Along I-70."

Bell, J. R.; Barrett, R. K.; and Ruckman, A. C., "Geotextile Earth Reinforced Retaining Wall Tests."  
Pell, Kynric, and Nydahl, John, "Geothermal Heating Of The Bridges And Tunnels In Glenwood Canyon."  
Liang, Y., and Lovell, C. W., "Predicting The Strength Of Field Compacted Soil From Laboratory Tests."  
Teme, S. C., and West, T. R., "Determination Of Friction Angle Values For Rock Discontinuities In Regard To Stability Of Highway Cuts."  
Turner, A. Keith, "Computer Generated Maps."  
Benson, Richard C., "Evaluation Of Differential Settlement Of Collapse Potential."  
Sherman, William F., "Geotechnical Applications In Maintenance And Reconstruction Of The Existing Highway System."  
Thornton, Sam I., "Fly Ash Leachate In Highways."

Thirty-Fourth Annual Highway Geology Symposium - May 2-4, 1983 -  
Georgia Department of Transportation, Georgia Geological Survey,  
FHWA - Atlanta, Georgia.

Dickerson, Robert T., "Investigation, Evaluation, And Quality Control Of Aggregate Sources In Georgia."  
Bailey, Warren F., "Georgia Stabilized Embankment Wall Construction."  
West, T. R., and Fein, M. R., "Geologic And Economic Aspects Regarding The Development Of An Underground Limestone Mine, Indianapolis, Indiana."  
Leary, Robert M., and Klinedinst, Gary L., "Retaining Wall Alternates."  
Nicholson, Peter J., "Innovations In Anchored Retaining Walls."  
Abramson, Lee W., "Geotechnical Instrumentation Of Modern Retaining Wall Designs In An Urban Setting."  
Barksdale, Richard D., and Dobson, Tom, "Improvement Of Marginal Urban Sites Using Stone Columns And Rigid Concrete Columns."  
Trettel, Charles W., "Blasting Vibrations In An Urban Environment."  
Lambrechts, James R., "Southwest Corridor Project, Boston, Massachusetts."  
Gruen, H. A., and Lovell, C. W., "Preloading Peat For Foundation Use."  
King, John W., "Measurement Of Construction Influences On Adjacent Structures."  
Sharma, Sunil, and Lovell, C. W., "Strengths And Weaknesses Of Slope Stability."  
Collison, Gary H., "Geotechnical Data Collection For Design Of The Cumberland Gap Pilot Bore."

Thirty-Fifth Annual Highway Geology Symposium - August 15-17, 1984 - California Department of Transportation, and the Department of Geology, San Jose State University - San Jose, California.

- Williams, John W., "Geotechnical Setting Of The San Jose Area, California."
- Sparrowe, Thomas A.; Vassil, Vasiliki B.; and Young, Douglas T., "1984 Inventory Of Foothill Landslides, Santa Clara County, California."
- Cotton, William R., "Engineering Geology Of The Carmel Valley Road Rockslide, Monterey County, California."
- Higgins, Jerry, "Characteristics Of Mudflows: Some Examples From The 1980 Mount St. Helens Eruptions."
- Berkland, James O.; Dahlin, Alan; and Remillard, Richard, "The Congress Springs Landslide Updated."
- Durgin, Phillip, "Failure By Subsurface Stormflow In Melange Terrane."
- Orr, William, "Correction Of Sycamore Draw Landslide, South Of Big Sur, Monterey County, California."
- Holzhausen, Gary R., "Slope Stability Monitoring In The Digital Age."
- Alt, Jack, "Geologic And Seismic Considerations For Proposed Highway Bridge Sites Near Quito, Ecuador."
- Griggs, Gary B., "Highway Protection And Maintenance At Waddell Bluffs, Santa Cruz County - Problems In An Active Geologic Setting."
- Smith-Evernden, R. K., "Wave Erosion Of State Highway 1 Along The San Gregorio Fault Between Davenport And Pescadero, California."
- West, Terry, "Detailed Office, Field, And Laboratory Analysis To Discern Rock Slope Stability, Interstate Highway 287, Northeastern New Jersey."
- Chapman, K. Ronald, "Contracting For And Using Tiebacks For Landslide Stabilization."
- Chen, Fred Y. M., "Geotechnical Design Parameters For Cut-And-Cover Stations And Tunnel Segments Of L. A. Metro Rail Project."
- Schoeberlein, Elizabeth, and Slaff, Steven, "Overcoming Difficulties Encountered During Geotechnical Field Investigations Along Urban Transportation Corridors."
- Sorensen, Mike, "Earthquake Ground Response Study For The Century Freeway, Los Angeles, California."
- Hannon, Joe, and Walsh, Tom, "Final Results Of Embankment Performance At Dumbarton."

Thirty-Sixth Annual Highway Geology Symposium - May 13-15, 1985 -  
Indiana Department of Highways, Kentucky Transportation Cabinet,  
School of Civil Engineering at Purdue University - Clarksville,  
Indiana.

- Gray, Henry H., "Outline Of The Geology Of The Louisville Region."
- Mathis, Henry; Wright, Earl; and Wilson, Richard, "Subsidence Of A Highway Embankment On Karst Terrain."
- Moore, Harry, "The Pellissippi Parkway Extension - Geotechnical Engineering Karst Terrain."
- Drumheller, Joe C., "Exploration And Repair Of Limestone Sinkholes By Impact Densification (abs)."
- Amari, Dominick and Moore, Harry, "Sinkholes And Gabions: A Solution To The Solution Problem."
- Killey, Myrna M. and Dumontelle, Paul B., "Illinois Landslide Inventory: A Tool For Geologists And Engineers."
- Quinlan, James F., "Who Gets Sued When You Sink Or Swim, And Why: Liability For Sinkhole Development And Flooding That Affects Homes, Roads And Other Structures."
- Anderson, Thomas C. and Munson, William E., "Tieback Walls Stabilize Two Kentucky Landslides."
- Reeves, Ronald B. and Weatherby, David E., "Electrical Isolation Of Tieback Anchorages."
- Richardson, David N., "Relative Durability of Shale - A Suggested Rating System."
- Munson, William E., "Evaluation Of Geotechnical Designs For Shale Embankment Corrections."
- Schuhmann, Mark J. and Schmitt, Nicholas G., "Use Of New Albany Shale For Subgrade And Pavement Stabilization."
- West, T. R. and Hummendorf, R. G., "Use Of Sonic Logs In Evaluating Roof-Rock Strength For An Underground Coal Mine."
- Pfalzer, William, "Wick Drains."
- Bleuer, N. K., "The Nature Of Some Glacial And Manmade Sedimentary Sequences And Their Downhole Logging By Natural Gamma Ray."
- Lienhart, David A. and Stransky, Terry E., "Laboratory Testing As An Aid In The Design Of Cable Anchor Systems For Rock Reinforcement."
- Nwabuoeki, S. O. and Lovell, C. W., "Predicting Settlements Within Compacted Embankments."
- Bachus, Robert C., "The Effects Of Sample Disturbance On The Stress-Deformation Behavior Of Soft Sandstone."
- Nieto, Alberto S. and Matthews, Peter K., "Moment-Driven Deformation In Rock Slopes."

Thirty-Seventh Annual Highway Geology Symposium on "Geotechnical Aspects of Construction in Mountainous Terrain" - August 20-22, 1986 - Montana Department of Highways and Montana Division, FHWA - Helena, Montana.

- Berg, Richard S., "Geology of Montana".
- Jones, Walter V., and Stilley, Alan, "Geotechnical Design Considerations For Road Construction Of An Active Talus Slope."
- Torbett, C. Allen, and Ryan, Patrick T., "Statistical Analyses Of Factors Related To Rock Slope Stability In Eastern Tennessee."
- Wright, Earl M., and Bukovansky, Michael, "Stability Problems Of Rock Cuts, US-23 In Eastern Kentucky."
- Abramson, Lee W. and Daly, William F., "Analysis And Rehabilitation Of Aging Rock Slopes."
- Miller, Stanley M., "A Time-Based Model To Help Evaluate Future Stability Of Cut Slopes."
- Ciarla, Massimo, "Wire Netting For Rockfall Protection."
- Watters, Robert J., Karwaki, Lyn, "Rockfall Mitigation As A Function Of Cost Benefit And Probability Assessment."
- Wilde, Edith M., and Bartholomew, Mervin J., "Statewide Inventory And Hazard Assessment Of Deep Seated Landslides In Montana."
- Moore, Harry L., "The Construction Of A Shot-In-Place Rock Buttress For Landslide Stabilization."
- Turner, A. Keith, "Application of Personal Computer Models For The Stability Analysis Of Three Land Slides Near Vail, Colorado."
- Thomaz, J. E. and Lovell, C. W., "General Method For Three Dimensional Slope Stability Featuring Random Generation Of Three Dimensional Surfaces."
- Cowell, Michael J., Anderson, Ron and Anderson, Bob, "Polymer Geogrid Reinforced Soil Slopes Replace Retaining Walls."
- Reeves, R. Bruce, "Design And Specification Of Tied Back Walls."
- Aiyer, A. Kullathu, "Performance Of Internally Reinforced Soil Retaining System."
- Franceski, John A., "Roadway Stabilization Using A Tieback Wall."
- Thornton, Sam I., and Elliott, Robert P., "Resilient Modulus - What Is It?"
- Thornton, Sam I., and Elliott, Robert P., "Resilient Modulus - What Does It Mean?"
- Schulte, Michael P., "Dynamic Pile Monitoring And Pile Load Tests In Unconsolidated Sands And Gravels, Wyoming."
- Olson, Larry D. and Church, Edward O., "Survey Of Non-Destructive Wave Propagation Testing Methods For The Construction Industry."
- Norris, Gary, "Evaluation Of Nonlinear Stabilized Rotational Stiffness Of Pile Groups."
- Ludowise, Harry, "Refraction Seismic Study To Explore A Borrow Source In A Remote Area."
- Remboldt, Michael D., "Use Of Computer Spread Sheets In Geotechnical Design And Review."

Thirty-Eighth Annual Highway Geology Symposium on "Highway Construction In Unstable Topography" May 11-13, 1987 - Pennsylvania Department Of Transportation and Engineers' Society of Western Pennsylvania - Pittsburgh, Pennsylvania.

- Adams, William R., Jr., "An Empirical Model To Be Used In Evaluating The Potential For Landsliding In Allegheny County, Pennsylvania."
- Brossard, Elizabeth A., and Long, Michael T., "Exploration And Analysis Of A Proposed Roadway Over Organic Soils In Western Oregon."
- Young, Brian T., and Shakoor, Abdul, "Stability Of Selected Road Cuts Along The Ohio River As Influenced By Valley Stress Relief Joints."
- Leech, Thomas G.; Diviney, John G.; Janik, Charles T., "Landslide Stabilization In Hilly Urban Terrain."
- Ackenheil, Alfred, "Ft. Pitt Tunnel North Portal Cut Slopes Revisited."
- Watts, Chester F., and Frizzel, Earl, "A Preliminary Look At Simple Back Analysis Of Rock Slope Stabilities Utilizing Micro Computers."
- Newman, F. Barry and Gower, T. R., "Geological Hazards Along Dorcon Road And LR 1094."
- Bruce, Donald A., Dr., and Boley, Dennis L., "New Methods Of Highway Stabilization."
- West, Terry R., "Highway Construction In The Lake Bed Deposits, Southwestern Indiana."
- Hamel, James V., "Geological And Geomorphological Investigation For Cultural Resource Evaluations."
- Olson, Larry D., Church, Edward and Wright, Clifford C., "Nondestructive Testing And Evaluation Methods For Investigating The Condition Of Deep Foundations."
- Bachus, Robert C., "Lessons Learned From European Practice On The Use Of Stone Columns For Site Improvements."
- Diviney, John G. "Ground Modification Of Highway Embankment Foundation By Dynamic Compaction."
- Hayden, Myron; Bloomburg, D.; Upchurch, S. B.; Williams, Ronald C., "Cone-Penetrometer Exploration Of Known Sinkholes."
- Sheahan, James M., "Cut Slope Design For A Major Urban Highway In The Pittsburgh Area."
- Moore, Harry L., "Karst vs. Highway Ditchlines In East Tennessee."
- Thornton, Sam I., Kirkpatrick, W. E., "Cures For Slope Failures In Arkansas."
- Leichner, Charles H., "Anchored Solutions For Unstable Topography."
- Miller, S. M. Orbach; Canavan, William; and Kochel, R. Craig, "Assessment Of Landslide Potential Along Route 3, Southern Illinois."
- Bonaparte, R.; Berg, R. and Butchko, S., "The Use Of Geosynthetics To Support Roadways Over Sinkhole Prone Areas."

Stokowski, Steven J., Jr., "Ground Magnetic Studies In Appalachian Valley Karst."  
Voytko, Edward P.; Scovazzo, Vincent and Cope, Neil, "Rock Slope Modification Above The North Portal Of The Mt. Washington Tunnel."  
Hazen, Glenn A., and Sargand, Shad, "The Effect On Highways Of Surface Subsidence Resulting From Longwall Coal Mining."  
Wilshusen, J. Peter; Inners, Jon D.; Braun, Duane D., "Rock Slide On I-81, Northeastern Pennsylvania."  
Markunas, Bernard, "Roadway Relocation Through Abandoned Municipal Dumps: A Case Study Near Hershey, Pennsylvania."

Thirty-Ninth Annual Highway Geology Symposium on "Construction To Minimize Environmental Impact" - August 17-19, 1988 - Brigham Young University, Utah Department Of Transportation, Utah Geological And Mineral Survey - Park City, Utah.

Doelling, Hellmut H., "A Brief Overview Of The Geology Of Utah."  
Harty, Kimm M., "Geologic Hazards Of Utah."  
Abramson, Lee W. and Hansmire, William H., "Geologic Engineering On The New Interstate H-3 In Hawaii."  
Norrish, Norman I., and Lowell, Steve H., "Aesthetic And Safety Issues For Highway Slope Design."  
Murtha, Geri Q.; Tiedemann, Robert B.; and Green, Richard W., "Construction Constraints - Wetlands, Runoff, Contamination."  
Bruce, D. A., Dr., "Urban Engineering And The New Technologies."  
Sotir, Robbin B., and Moore, William L., III, "Fill Slope Repair Using Soil Bioengineering Systems."  
Curtin, Thomas J., and Tharp, Thomas M., "Stability Investigation Of Mt. Carmel Tunnel By Physical And Finite Models."  
Rippere, K. H.; Williams, R. S.; and Funkhouser, M. R., "Investigation & Stabilization Of A Developing Landslide At The Intersection Of US-89 And The D&RGW Tracks East Of Thistle, Utah."  
Fan, J. C., and Lovell, C. W., "The Measured Slope Steepness Factor & Its Theoretical Analysis For Predicting Soil Erosion On Highway Slopes."  
Verduin, J. R., and Lovell, C. W., "Reliability Analysis With PCSTABL5M."  
Rana, G. M.; Smith, Jim; and Irani, Khodi, "Ground Water Influence On Highway Fill Slope Stability."  
Moore, Harry L., "Oriented Pre-Split For Controlling Rock Slides."  
Coffin, James L., "Installation Of An Underdrain System For Slope Stability."  
Karably, K. B., and Humphries, R. W., "Talus Slope Stability Using Tie Back Anchors In Provo Canyon, Utah."  
Leonard, Matthew; Plum, Robert L.; and Kilian, Al, "Considerations Affecting The Choice Of Nailed Slopes As A Means Of Slope Stabilization."

Thommen, Robert A., "Steel Wire Rope Net Systems Used For Protection Against Rockfall & Debris Flow & All Other Purposes Of Protection."

Mitchell, David A., "4000 Bridge Foundation Investigations."

Capaul, W.; Wyllie, D.; Dunsmore, R.; Smith, R.; Winger, J.; Paroni, A.; Draeger, J., and Perfect, J., "Construction Of A Tied Back Soldier Pile Rock Retaining Wall Along I-90 In Northern Idaho, A Case History."

West, Terry R., "Construction Of A New Interchange For The Indiana Toll Road, Complicated By Poor Soil Conditions And Presence Of Sanitary Land Fill, Gary, Indiana."

Pihl, Roger, and Bowen, Tim, "Design And Construction Methodology For Rock Cuts In Glenwood Canyon."

Miller, Stanley M., "Modeling Shear Strength At Low Normal Stresses For Enhanced Rock Slope Engineering."

Burk, Robert L., and Moser, Kenneth R., "Spirit Lake Memorial Highway-Geologic Investigations In A Zone Of Natural Aesthetic Change."

Levine, Edward N.; Genson, Gordon, R.; Dye, Ronald R., and Slifer, James C., "From Geophysics To Design In An Environmentally Sensitive Area."

Scott, James H.; Burdick Richard G.; and Ludowise, Harry, "Interpretation Of Seismic Refraction Data On A Microcomputer."

Thronton, Sam I., and Elliott, Robert P., "Rapid Shear As An Evaluation For Base Course Material."

Fortieth Annual Highway Geology Symposium on "Symposium Venue" - May 17-19, 1989 - Alabama Highway Department - Birmingham, Alabama.

Bearden, Bennett L., "General Overview Of The Geology And Natural Resources Of Alabama."

Walker, Thomas H., "Engineering Geology And Geotechnical Engineering For A Preliminary Route Alignment Study For 25 Miles Of Arizona State Route 87."

Huang, Wei-Hsing, and Lovell, C. William, "Suitability Of Bottom Ash For Indiana Highway Construction."

Lockett, Larry, and Mattox, Robert M., "Geogrid Reinforcement For Cochrane Bridge Embankment."

Achilleos, E., and Lovell, C. William, "Update on STABL...PCSTABL5M."

West, Terry R., and Gordon, Quentin A., "Demolition And Removal Of Structures Prior To Land Reclamation."

Burns, Scott F.; Hadley, William O.; Mutchler, Jack W.; Smith, Shaun M.; and Griffin, Paul M., Jr., "Slope Failures On Highway Embankments High In Shrink-Swell Clays: Prevention And Repair."

Nelson, K. Jeff, and Selvage, John R., "Design Applications Of The Welded Wire Wall."

Sharma, Sunil, "Integrated Slope Stability Analysis Using Microcomputers."

Morales, Carlo Hugo Rivera, "Honduras Highway Geology."

Wolosick, John R., "Contract Specification Options For Retaining Wall Design And Construction: Discussion Of Construction Alternates and Case Histories."

Sharma, Sunil, and Hardcastle, James H., "Finite Element Analysis Of A Rib-Reinforced Steel Culvert."

Thommen, Robert A., Jr., "First Wire Rope Net Rockfall Protective Barrier Installed At The Grand Canyon National Park."

Wright, E. M., "Special Treatment Of Mine Openings In Rock Cut Slopes."

Humphries, Richard, and Sullivan, Randy, "Recent Highway Tunnel Projects In The Appalachian Mountains."

Forty-First Annual Highway Geology Symposium - August 15-17, 1990 - New Mexico State Highway and Transportation Department and New Mexico State University Department of Civil, Agricultural and Geological Engineering - Albuquerque, New Mexico.

Haneberg, William, "Geologic Hazards Of New Mexico."

Collins, Donley, and Swolfs, Henri, "Highway Damage Related To A Fault Near Pierre, South Dakota."

Barnes, Jamie, "Seismic Record Versus Geologic Record In The Southern Rio Grande Rift Region."

Moore, Harry, "Rockfall Mitigation Along I-40, Cocke And Cumberland Counties, Tennessee."

Watters, Robert, and Rehwoldt, Eric, "Slope Distress And Rock Fall Induced By The Presence Of Old Underground Excavations."

Duffy, John, and Smith, Duane, "Field Tests And Evaluation Of Rocknet Restraining Nets."

Elliott, Gordon, and Rippere, Kenneth, "Performance Analysis In Rockfall Simulation."

Rector, Edward, and Lueck, Richard, "Design Of Geogrid Wall With Wick Drains In Tucumcari, New Mexico."

Thornton, Sam, and McGuire, Michael, "Geogrid-Expansive Clay Embankment."

Cross, Richard, "Creating An Elevated Catchment Area Using A Precast Modular Wall System."

Deardorff, George, and Findley, David, "17 Miles To Mount St. Helens: Operational Aspects Of The Geotechnical Investigation."

Humphries, Richard; Elliott, Gordon; Cafarelli, Gerald; Hollenbaugh, John; and Geiger, Eugene, "Analysis And Design Of Tieback Wall No. 5 In Steubenville, Ohio."

Nicholson, Peter, and Johnston, Spark, "Alternative Methods For Retaining Walls."

Neel, Thomas, "T-Wall - Engineered For Economy."

Thornton, Sam, and Garret, Steven, "Slope Failure Probability For Layered Soils."

Chang, Chien Tan, "Federal Highway Administration's Technology Transfer Activities In Geotechnical Engineering."  
Huddleson, Steven, "Data Acquisition System For Mechanical Dutch Cone Penetrometer."  
Wisner, William, "Florida's Mineral Aggregate Control Program."

Forty-Second Annual Highway Geology Symposium on "Geologic Complexities in the Highway Environment" - May 28-31, 1991 - American Society of Civil Engineers, American Institute of Professional Geologists, New York State Department of Transportation, New York State Geological Survey - Albany, New York.

Bydlon, B., "Geologic Innovations on the Pennsylvania Turnpike."  
Rudenko, D; Ackerman, H; and Lorence, W., "Seismic Refraction Technique Applied to Highway Design in a Strip Mined Area of Southwestern Pennsylvania."  
Decker, M., and Jacobsen, G., "Evaluation of Acid Leachate Potential in Highway Construction."  
Stokowski, S., "Quarry Layers - Stratigraphic Units that Serve the Public Interest."  
Fischer, J., and Greene, R., "Roadways in Karst Terrane."  
Mellett, J., and Maccarillo, B., "Highway Construction in Karst Terranes: Avoiding and Remediating Collapse Features."  
Hardy, H., "Application of Non-destructive Testing Techniques to Slope Stability and Sinkhole Monitoring."  
Brandon, S., "Rock Slope Excavation and Stabilization Methods in Highway Construction: Interstate 287 Extension, New Jersey."  
Hale, L. L., III, and Gansfuss, J., "Rock Slope Investigations at Selected Hudson Valley Sites."  
Burke, J., and LeFevre, S., "Rock Slope Inventory, Evaluation and Remediation for Sections Along the NYS Thruway."  
Cross, R., "A Design for A Temporary Reusable Rock Catchment Barrier."  
Bolton, C., "Evolution of Rock Excavation and Stabilization in New York State."  
Abramson, L., "Complex Geology at Complex Sites."  
Dunn, J; Banino, G; and LaGrand, D., "Treated Aggregate in an Asphaltic Concrete Road: An Apparent Success."  
Hudec, P., and Achampong, F., "Improving Aggregate Quality by Chemical Treatment."  
Parola, A., and Hagerty, D., "Highway Bridge Failure by Foundation Scour and Instability."  
Butch, G., "Measurement of Scour at Selected Bridges in NY."  
Horne, W.; Stevens, D.; and Batson, G., "Ground Penetration Radar Study of Riverbed Scour in NYS."  
McGuffey, V., "Clues to Landslide Identification and Investigation."  
Thornton, S., and Garrett, S., "Slope Failure Probability for Mixed Layer Soils."  
Baskerville, C., "Northern New England Landslides."

Forty-Third Annual Highway Geology Symposium - August 19-21, 1992 -  
University of Arkansas Dept. of Civil Engineering, Arkansas State  
Highway and Transportation Department and Arkansas Geological  
Commission - Fayetteville, Arkansas.

- Lin, P. S., and Lovell, C. W., "The Critical State of Debris Flow."  
McManis, Kenneth , and Nataraj, Mysore, "The Influence of Post  
Depositional Effects on the Engineering Properties of a Marine  
Clay."
- \*Stone, Charles G., "Overview of the Complex Highway Geology in West-  
Central Arkansas."
- O'Hara, Kevin C., and West, T. R., "Evaluation of Coal Refuse For  
Access Road Construction at an Abandoned Mine Lands Site,  
Southwest Indiana."
- McFarland, John D., "Landslides on Crowley's Ridge."  
Annable, Jonathan and Sharum, John, "Slope Failures on Highway 71  
Relocation Projects."
- \*Munoz, Andy, Jr., "Slope Maintenance and Slide Restoration."  
Graham, J. R.; Ingraham, P. C.; and Humphries, R. W., "Repairs to Rock  
Slopes at the US-22/SR-7 Interchange in Steubenville, Ohio."  
Thornton, Sam I., and McGuire, Michael S., "Cannon Creek Embankment  
Instrumentation."  
Lumbert, David W., and Thian, Boon K., "Design, Construction and  
Monitoring of a 76 Foot High Geogrid Reinforced Earth  
Embankment."  
Moore, Harry, "The Use of Geomembranes for Mitigation of Pyritic  
Rock."  
Lumbert, David W., and Stone, Charles G., "Highway Geology at Selected  
Sites in the Boston Mountains and Arkansas Valley, Northwest  
Arkansas."  
Yarnell, Charles N., "1992 Update: Steel Wire Rope Safety Net Systems  
Application to Rockfall Mitigation in the U. S."  
Macintosh, O. R., "Value Engineering Proposal Using Hilfiker Welded  
Wirewall for Soda Springs Highway Near Auburn, California."  
Austin, Alvin L., and Annable, Jonathan A., "In-situ Moisture Content  
of Arkansas Subgrades."  
Henthorne, Robert; Jones, William; and Rockers, Larry, "Investigation  
and Remediation of Undermined Highway."  
Darrag, A. Amr; Lovell, C. W.; and Karim, A. M. K., "New Correlations  
for Piles Driven Into Cohesionless Soils."  
Selvam, R. Panneer, and Elliott, Robert P., "Nonlinear Finite Element  
Analysis of Pavements Using Microcomputer."  
Thornton, Sam I., and Ford, Miller C., Jr., "Aggregate Suitability  
(Stripping) for Asphalt Pavements."  
Ruppen, Christopher A., and Baker, Michael, Jr., "When Does the Work  
End?"

\* Abstract Only

Forty-Fourth Annual Highway Geology Symposium - May 19-21, 1993 -  
University of South Florida Dept. of Civil Engineering and Mechanics  
and Florida Department of Transportation - Tampa, Florida.

- Goddard, Robert E., P.G. and Wisner, William A., Jr., P.G., "Use of Aggregate in the Sunshine Skyway Bridge Project."
- Khalid, Jamil, and Thornton, Sam I., "Resilient Modulus vs Strength in Cement Stabilized Base Courses."
- Javed, S., and Lovell, C. W., "Use of Waste Foundry Sand in Highway Construction."
- Zayed, Abla M., "Effect of Fly Ash Quality on Concrete Durability."
- Spencer, Steven M., P.G., "A Roadway Problem in a Cavernous Karst Environment at the Florida Caverns State Park."
- Foshee, Jon, and Bixler, Brian, "Cover-Subsidence Sinkhole Evaluation State Road 434 - Longwood, Florida."
- Yovaish, Douglas J., P.E., and Law, Donald S., P.E., "Technical Related Analysis, Design, and Construction 4 Lane Highway Over 8 to 20 Feet of Peat."
- Marienfeld, Mark, P.E., "Highway Reconstruction Over an Expansive Subgrade Incorporating a High Strength Geosynthetic Moisture Barrier."
- Pittenger, Robert A., and West, Terry R., "Investigation for Landfill Expansion in a Bedrock Area, Southcentral Indiana."
- Behringer, David W., and Shakoor, Abdul, "A Study of Selected Landslides Along Cincinnati Roadways."
- Ross, Mark A., and Vincent, Mark S., "Numerical Modeling of Sediment Erosion at Tidal Inlet Bridges."
- Goddard, R. E., "44th Annual Field Trip Guide Unique Construction Projects and Problems in the Tampa Bay Area of Florida."
- Carrier, III, W. David, "Mechanical Properties of Lunar Soils and Implications For a Lunar Base."
- Sokol, Thomas P., P.E., and McCahan, Matthew L., "Pennsylvania Turnpike Expansion: A Reprospect."
- \*Ahmed, Imtiaz, and Lovell, C. W., "Laboratory Study on Properties of Rubber-Soils."
- Schneider, Nicholas P., and Bauer, Robert A., "Environmental Property Assessments for Highway Projects: Key Elements for Successful Program Implementation."
- Madrid, Larry D., P.E., and Smith, Ted J., P.G., "Construction of a Four-Lane Highway Embankment Over a Contaminated Landfill."  
(Not Published)
- Kasim, Margaret F., and Shakoor, Abdul, "Predicting the Compressive Strength of Rocks From Aggregate Degradation."
- Chen, W. Y.; Lovell, C. W.; Pyrak-Nolte, L. J; and Haley, G. M., "New Precursor of Stick-Slip Movement of Rock Block."
- Marcozzi, Guy F., P.E., "Cement Amended Fly Ash as a Structural Fill."

\* Abstract Only

Forty-Fifth Annual Highway Geology Symposium - August 17-19, 1994 -  
Portland State University, Oregon Department of Transportation,  
Washington Department of Transportation, Transportation Research  
Board - Portland, Oregon.

- Koelling, Mark, "Ground Improvement Case Histories for Highway Construction."
- Johnston, Robert E., and Abramson, Lee W., "Geosynthetic Reinforcing of Highway Embankments."
- Bailey, Joe, "Application of MSE (Mechanically Stabilized Earth) Slopes as Replacement for Retaining Walls; a New Hampshire Case History."
- Kuhne, J. C., and Glass, F. R., "Probabilistic Analysis and Design of Slopes on Interstate 26 From Asheville, NC to Tennessee."
- Shaw, Lee R.; Toh, Chin Leong; and Thornton, Sam I., "Effects of Lime on Cannon Creek Embankment Soil."
- Armour, Tom A.; Johnston, Mark S; and Groneck, Paul B., "Innovative Rock Anchoring at Boundry Dam, Washington."
- Badger, Tom, "Rock Excavations in Steep Ground."
- Flatland, Robert; Watters, Robert J.; and Cochrane, David, "Application of the Rockfall Hazard Rating System to Rock Cuts in Mountainous Terrain."
- Thommen, Robert A., and Montejo, Manuel A., "Rock Retaining Wire Rope Net System Installation at Orizaba, Mexico."
- Hannan, Richard; Moran, Michael; and Scofield, David, "Design, Construction, and Performance of Horizontal Drains at Bonneville Navigation Lock, Oregon."
- Humphries, Rich, "Recent Geotechnical Advances in the Design and Construction of Highway Tunnels."
- Huddleson, Steven M., and Lovely, Anne, Esq., "Hazardous Materials in the Roadway."
- Javed, S.; Lovell, C. W.; and Eastwood, D. A.; "Waste Foundry Sand in Subgrade and Controlled Low Strength Material."
- Burk, Robert L.; Norrish, Norm; and Lowell, S. M., "Investigation, Design, and Construction of the Spirit Lake Memorial Highway, Washington."
- Dahill, Jim, "Investigation and Stabilization of a Developing Landslide, Highway 28, South of Lander, Wyoming."
- Hager, G. Michael, and Falk, Mark, "Catastrophic Embankment Failure South of Sheridan, Wyoming, Interstate 90 - M. P. 41.1."
- Kane, William F., and Beck, Timothy J., "Development of a Time Domain Reflectometry System to Monitor Landslide Activity."
- Kobernik, Ricki M.; Toor, Frank N.; and Watanabe, Richard, "The Arizona Inn Landslide, Curry County, Oregon."
- Peterson, Gary L; Squier, L. Radley; and Scofield, David H., "Engineering Geology and Hydrology Update, Arizona Inn Landslide, Curry County, Oregon."
- Bruner, D. W.; Choi, J. C.; and West, T. R., "Evaluation of Indiana

Aggregates for Use in Bituminous Highway Overlays."

Fisk, Lanny H., and Spencer, Lee A., "Highway Construction Projects Have Legal Mandates Requiring Protection of Paleontologic Resources (Fossils)."

Gaffney, Donald V., "BV-116: The Bridge by Addendum: Wetlands Dictate a Change in Design."

Selvam, R. Panneer; Elliott, Robert P.; and Arounpradith, A., "Pavement Analysis Using ARKPAV."

Sherman, William F., "The Impact of Registration on Geologists on the Professional Involved in Highway Geology."

Forty-Sixth Annual Highway Geology Symposium - May 14-18, 1995 - West Virginia Geological and Economic Survey, West Virginia Division of Highways, West Virginia University, Transportation Research Board - Charleston, West Virginia.

Kroenke, Mark A., and Shakoor, Abdul, "A Geotechnical Investigation of the Chagrin River Road Landslide Complex in the Moreland Hills Area, Cuyahoga County, Ohio."

Reed, Benjamin C; McConnell, W. T.; and Mullen, D. M., "Potential for Slope Instability and Acidic Runoff Along a Section of the U. S. 19 Corridor; Cherokee, Graham, and Swain Counties, North Carolina."

Hamel, James V., and Hamel, Elizabeth A., "Landsliding in Pennsylvania."

Martin, A. David, "Maryland Route 31 Sinkhole."

Fischer, Joseph A., and Fischer, Joseph J., "Remediation for Highways in Karst."

Stephenson, J. Brad; Beck, Dr. Barry F., P. E.; Smoot, Dr. James L. and Turpin, Anne, "Management of the Discharge and Quality of Highway Stormwater Runoff in Karst Areas to Control Impacts to Ground Water - A Progress Report."

Hager, G. Michael, and Falk, Mark, "Landslide Repair Utilizing A Steepened Geogrid Reinforced Slope, Interstate 90, M. P. 28.9, Sheridan County, Wyoming."

Singh, Yash P.; Cavan, Bruce P.; Rhodes, Gary W., "Design of Rock Reinforcement for Tallulah Gorge Bridge Foundations."

Bigger, Joseph C., "Rock Fall Mitigation Program at Nantahala Dam Using Wire Rope Nets in Conjunction with Other Techniques."

Seider, Gary L., and Smith, Walter, "Helical Tieback Anchors Help Reconstruct Failed Sheet Pile Wall."

Ludwig, Harald P., "Permanent Highway and Landslide Walls."

Hoffman, A. G.; Melick, D. F.; Clark, D. M.; Bechtel, T. D.; "Abandoned Deep Mine Subsidence Investigation, and Remedial Design, I-70, Guernsey County, Ohio."

Toh, Chin Leong, and Thornton, Sam, "Limestone Base Course Permiability."

- Lovell, C. W.; Bernal, Andres; and Salgado, Rodrigo, "Uses of Scrap Rubber Tires in Civil Engineering."
- West, Terry R., "Evolution of A Technique: Petrography of Aggregates for Concrete and Bituminous Highway Pavements."
- Johnston, R. Michael, and Vierling, Michael P., "A Modified Presplit Blasting Method for Use in Environmentally Sensitive Areas."
- Hall, Kevin D., and Watkins, Quintin B., "Effect of Soil Horizonation on Flexible Pavement Responses."
- Brown, Christopher L., and Shakoor, Abdul, "Predicting the Unconfined Compressive Strength of Carbonate Rocks from Los Angeles Abrasion Test Data."
- Ruppen, Christopher A., and Eliot, Gordon M., "Mitigating Landslide/Rockfall Hazards - A Quantitative and Qualitative Evaluation of Risk Reduction."
- Forty-Seventh Annual Highway Geology Symposium - September 6-9, 1996 - Wyoming Department of Transportation, Wyoming Geological Survey, Cody, Wyoming.
- Burns, Scott, "Earthflows, Debris Flows and Roads: The Aftermath of the Winter Storm of 1996, Portland, Oregon."
- Fickies, Robert, "Landslide Hazards in New York State: A Geological Overview."
- Adams, Wayne, and Findley, Dave, "Peters Road Landslide."
- Willems, Henry and Podniesinski, Matthew, "Rock Slope Stabilization at Dunderberg Mt., Rockland County, New York."
- Priznar, Nick, and Euge, Kenneth, "Geologic Investigation of the Gordon Canyon Slide."
- Turner, J. P.; Hasenkamp, R. N.; and Edgar, T. V., "Reinforced Earth Retaining Wall for Landslide Control, Snake River Canyon, Wyoming."
- Wyllie, Duncan, and Kielhorn, W., "Wedge Stability Analysis - Geometric and Groundwater Enhancements."
- Duskin, Priscilla, "Seismic Refraction as a Method for Determining Thickness of Organic Sediments."
- Beck, Timothy J.; Kane, William F., "Current and Potential Uses of Time Domain Reflectometry for Geotechnical Monitoring."
- Boundy, Bret, and Dahill, James, "Instrumentation of a Shredded Tire Fill Used for a Landslide Repair, The Burning Issue."
- Gaffney, Donald V.; McCahan, Matthew L., "Integrated Geohazard Management - A Systemwide Approach."
- Adams, Jr., William R., and Ruppen, Christopher, "SGH Form: Format for Early Collection of Essential Geotechnical Data."
- Heinert, Kevin, "Permanent and Temporary Earth Anchoring for Highway Applications."
- Ludwig, Claus, "Making a Soil Nail Wall Look Like Rock."

Moore, Harry, "The Use of Underbenching in Embankment Construction Through Mountainous Terrain, I-26, Unicoi County, Tennessee."  
West, Terry, and Park, Hyuck Jin, "Rock Durability of Argillaceous Carbonate Rocks in Cut Slopes for Indiana Highways."  
Lovell, C. W., "Flowable Fill Using Waste Products."  
Studebaker, Irving; Patton, Susan; Studebaker, Raymond, "Subsidence Definition and Effects on Surface Construction."  
Lundvall, J. F.; Turner, J. P.; Stewart, J. M.; Edgar, T. V., "Roadway Settlement Over Culverts: Causes and Cures."  
Duffy, John, and DeNatale, Jay, "Debris Flow Mitigation Using Flexible Barriers."  
Hall, Kevin, "Preliminary Investigations Using ALROC Potliner Sand in Asphalt Concrete Mixtures."

Forty-Eighth Annual Highway Geology Symposium - May 8-10, 1997 - Tennessee Department of Transportation, University of Tennessee: Department of Geological Sciences Institute for Geotechnology, Department of Civil Engineering, Tennessee Division of Geology Transportation Research Board, Knoxville, Tennessee.

Hager, G. Michael, and Huntington, George S., "Internal Sulfate Attack: Wyoming's Expansive Experience."  
Fischer, Joseph A., and Fischer, Joseph J., "Investigation and Remediation of Service Plaza Fuel Storage Tanks in Karst."  
Stephenson, J. Brad; Zhou, W. F.; Beck, Barry F.; Green, Tom S.; Smoot, James L.; and Turpin, Anne M., "Management of Highway Stormwater Runoff Karst Areas-Baseline Monitoring and Design of a Treatment System for a Sinkhole at the I-40/I-640 Interchange in Eastern Knoxville, Tennessee."  
Marks, B. Dan, "Stabilization of Karst Features on Major Engineering Projects."  
Sebela, Dr. Stanka; Slabe, Dr. Tadej; Kogovsek, mag. Janja, "Motorways in Karst of Slovenia."  
West, Terry R., and Pittenger, Robert, "Computer Analysis of Required Statistical Parameters for Sites with Multiple Monitoring Wells Measured for Extended Periods of Time."  
Karim, A., Salgado, Rodrigo and Lovell, C. W. "Bill", "Building Embankments of Coal Combustion Fly Ash-Bottom Ash Mixtures."  
Ruegsegger, L. Rick, and Lefchik, Thomas E., "Abandoned Underground Mine Inventory and Risk Assessment."  
Bruhn, Robert W., Roth, Bruce L., and Chelednik, Craig, "Physical Distress Evaluation of the West Abutment of the SR-22 Bridge over the Conemaugh River."  
Shakoor, Abdul, and Chu, Chein-Jen, "Physical and Chemical Evaluation of Soil-Tire Mixtures for Highway Applications."  
Szturo, John F., and Duryee, Wayne, "Case Study-Drilled Shaft Foundations-Lake of the Ozarks Community Bridge."  
Adkins, Grant, and Rutkowski, Nanette, "Resistivity Field Testing of Reinforced Earth Structures."

- Hall, Kevin D., "Potential Effects of Superpave Implementation on the Arkansas Aggregate Industry."
- Martin, A. David, "The Landslide at Waverly Street and Maryland Route 36: A Case History."
- Shakoor, Abdul, and Kroenke, Mark A., "Analysis and Remediation of the Miles Road Landslide Complex, Cuyahoga County, Ohio."
- Wayne, Mark H., and Wokasien, Sean, "A Case History on the Use of Bioengineering in Mechanically Stabilized Earth Slope Design."
- Wright, E. M., "State of the Art for Rock Cut Slopes in Eastern Kentucky."
- Arwood, Scott; Mauldon, Matthew; and Moore, Harry, "Rock Slope Stability Analysis Based on Potential Energy."
- Siebert, Harry L., "The Role of a Contractor's Blasting Consultant-A Case Study."
- Cross, Richard H., "Elevated Catchment Areas: A Performance Report."
- Lambe, Philip C., and Sweitzer, Margaret, "Selecting Shear Strength Parameters for Weathered Metamorphic Rock."
- Beard, Jerome, "Parameters Used for Design of I-26 in North Carolina."
- Haston, Matt; Mauldon, Matthew; and Byerly, Don W., "Fractal Geometry for the Quantification of Rock Joint Roughness."

Forty-Ninth Annual Highway Geology Symposium - September 10-14, 1998 - Arizona Department of Transportation, Materials Group; Arizona Geological Survey, Northern Arizona University, Department of Geology - Prescott, Arizona.

- Bieniawski, Richard Z. T., "Design Principles and Methodology for Excavations in Geologic Media."
- Scovira, D. Scott, Barber, Michael F., "Final Rock Slope Blasting Techniques: Consideration in Design and Execution."
- Brawner, C. O., "Case Examples for Rock Stability on Transportation Projects."
- Peterson, David E., and Dahlen, Keith H., "Rock Slopes and Bridge Foundations in a Foliated Rock Mass along portions of State Route 69 Near Mayer, Arizona."
- Beck, Timothy J., and Kane, William F., "Site Characterization and Slope Stability Evaluation for the San Francisco-Oakland Bay Bridge."
- Glass, F. R., "A Large Wedge Failure Along Interstate 40 at the North Carolina-Tennessee State Line."
- Duffy, John D., "Performance Review of Rockfall Mitigation Measures."
- Moore, Harry, "Rockfall Control Fence, Unaka Springs Road, Unicoi County, TN."
- Vierling, Michael P., "The Performance of Rockfall Mitigation Measures in New York State."
- Gattis, J. L., and Thornton, Sam I., "Tunnel to the 21<sup>st</sup> Century".
- Humphries, Richard, "Tunnel Enlargement and Rehabilitation".
- White, Johnathan L., "High Altitude Slope Reconstruction and Restoration on Colorado State Highway 82, at Independence Pass, A Continuing Case

Study."

Beard, Jerome, "400,000 Cubic Yard Slope Failure on I-26."

Falk, Mark, and Hager, G. Michael, "Wolf Mountain Landslide Milepost 136.57  
Snake River Canyon, Teton County, Wyoming."

Turner, John; Hasenkamp, Robert; and Wolosick, John, "Micropile and Tieback Reinforced Walls for Landslide Stabilization, Snake River Canyon, Wyoming."

Schock, Robert E., "Three Interesting Drill Shaft Foundations Completed in Arizona."

Wright, Michael J., "Statnamic and Static Lateral Load Analysis of a Battered Pile Group vs. A Drilled Shaft Group."

Thommen, Robert, and Duffy, John D., "Testing and Application of Flexible Wire Rope Netting Barriers to Retain Mud & Debris Flow."

Siel, Barry D., and Siebert, Harry L., "Soil Nailing: Geology and Construction Considerations as They Relate to Field Inspection."

MacIntosh, O. R., and Alexander, Douglas E., "Call of the Canyon Mechanically Stabilized Earth Structure with Simulated Rock Facing."

Taylor, Gary E.; Gorski, Glen A.; and Alexander, Douglas E., "Compaction Grouting of a Deep Embankment Fill Along Interstate 15, Virgin River Gorge, Arizona."

Pearthree, Philip A., "Paleoseismology and Seismic Hazard Assessment in Arizona."

Hatheway, Allen W., "Former Manufactured Gas Plants (FMGP); Nemesis of Transportation Planning."

Lindberg, Paul A., "Structural Controls of Devils Kitchen Sinkhole; Sedona, Arizona."

Henthorn, Robert W., "Geologic Investigation and Construction of the Spring River Bridge."

Peterson, David E.; Rosberg, Lorena M., and Price, Ronald E., "Roadway Construction Considerations through a Young Volcanic Center, at the South end of Big Sandy Valley, near Wikieup, Arizona."

Slabe, Tadej, Dr., "Caves Discovered During The Construction of a Motorway Over Slovene Karst."

Fischer, Joseph A.; Fischer, Joseph J.; and Ottoson, Richard S., "Geotechnical Investigation in Karst: Bent Rock Versus Flat Rock."

Benson, Richard C.; Kaufmann, Ronald D.; Yuhr, Lynn B.; and Martin, David, "Assessment Prediction and Remediation of Karst Conditions on I-70, Frederick, Maryland."

Euge, Kenneth M.; Hennon, Kerry; Williams, Jason C.; and Priznar, Nick, "Ground Penetrating Radar: An Effective Tool for Locating Dry Caves Along a Portion of State Route 69 Near Mayer, Yavapai County, Arizona."

Qubain, Bashar S.; Seksinsky, Eric J.; and Li, Jianchao, "Design Considerations for Bridge Foundations in Karst Terrain."

Meier, W. R., Jr., and Rosner, John C., "Prospecting for Local Material Sources."

Stokowski, Steve, "Sequential Deterioration of Concrete, Congress Street Bridge, Boston, MA."

Mather, Bryant, "How to Avoid Excessive Expansion of Concrete Due to Alkali-Aggregate Reaction."

Duffy, Dennis, and Zaniewski, J. P., "Runaway Truck Ramp Testing Program."

West, T. R., "Evaluation of Crushed Stone Used for High Traffic, Bituminous Pavement Wearing-Courses in Indiana."

Chen, Dar-Hao; Bilyeu, John; and Murphy, Mike, "The Effect of Bedrock Depth On Pavement Response."  
Paine, Jeffrey G., and Murphy, Michael R., "Influence of Bedrock Type and Depth on Highway Deflections."  
Rucker, Michael L., "Percolation Theory Approach to Estimating Earthwork Factors in Weathered Granites."  
Wilburn, David, and Goonan, Thomas, "Recycled Aggregate in Road Construction - An Economic Assessment."  
Kelly, Thomas, "Crushed Concrete Substitution for Construction Aggregates - A Materials flow Analysis."  
Maley, Terry S., "The Ultimate Roadside Geology: Geological Heritage Sites."

Fiftieth Annual Highway Geology Symposium - May 20-23, 1999 -  
Radford University, Department of Geology/Institute for Engineering Geosciences, Virginia Department of Mines, Minerals and Energy/Division of Mineral Resources, Virginia Department of Transportation -  
Roanoke, Virginia.

Moore, Harry, "A Brief History of the Highway Geology Symposium."  
Hubbard, David A., Jr., "Highways in Virginia Karst: Resource and Hazard Considerations."  
Hubbard, David A., Jr., "Highways in Virginia Karst: Resource and Hazard Considerations."  
Gaffney, Donald V., and Dippel, Jeffrey G., "Karst Considerations in Final Design of Interstate 99 from State College, Pennsylvania, to Interstate 80."  
Daniel, Joel C.; Benson, Richard C.; and Samford, Ann M., "Use of Geophysical Techniques to Evaluate Karst Features for Roadway Design."  
Prowell, Marcia V.; Garst, Hugh C.; and Samford, Ann M., "A Case History on the Use of Compaction Grouting for Roadway Improvements in Mature Karst Topography."  
Reccelli-Snyder, Heather L.; Stahl, Beth A.; and Leberfinger, Jeffrey L., "Electrical Imaging: A Method for Identifying Potential Collapse and Other Karst Features Near Roadways."  
Rehwooldt, Eric; Matheson, Gordon M.; and Dunscomb, Mark H., "Resistivity Imaging: Getting the Big Picture in Karst."  
Nowak, Ethan, "Near Surface Cavity Detection Logon Co., Ohio."  
Richard, B. H.; Wolfe, P. J.; Hauser, E. C.; and Hicks, J. D., "Geophysical Techniques to Locate Old Coal Mines Beneath Highways."  
Zdinak, Aaron L.; Kaulfers, David A.; and Pelnik, Thomas W., III, "Detailed Subsurface Explorations Facilitate Cost Saving Designs for Transportation Projects."  
Sayre, David M., and Nash, Bill, "Use of Environmental Site Assessments to Facilitate Roadway Design and Construction in the Church Street Urban Corridor, Norfolk, Virginia."

Mathewson, Christopher C., and Morris, Lloyd E., "Protection and Preservation of an Archaeological Site below a Constructed Highway Fill."

Benson, Richard C., "An Overview of NDT Methods for Characterization of Roads and Bridges."

Artman, Lawrence J., II, and McCahan, Matthew L., "Replacement of Bridge B-451, Milepost 78.98, Carrying S. R. 0819 Over the Pennsylvania Turnpike."

Wargo, Keith, and Zang, Scott D., "Pile Relaxation in Soft Shales - A Critical Evaluation of the Effectiveness of Various Remedial Strategies based on Experience on the Airport Busway Project in Pittsburgh, Pennsylvania."

Mathis, Henry, "Soil Modification and Stabilization Utilizing Lime."

Hudec, Peter P., and Mitchell, Andrew, "Multivariable Statistical Techniques Applied to Aggregate Inventory Testing Program in Northwestern Ontario."

Sherwood, W. Cullen; Mahone, David C.; and Eaton, L. Scott, "The Effect of Aggregate Type and Mix Design on Wet Pavement Skid Resistance."

Rupe, C., and Knight, K. L., "Grid-based model for prediction of debris flow susceptibility applied to the Appalachian Valley and Ridge, Spruce Run Mountain, Giles County, Virginia."

Dean, W. T.; Watts, C. F.; and Seaton, W. J., "Evaluation of a Suspected Ancient Mass Movement Using Electrical Resistivity."

Shakoor, Abdul, "A Reconnaissance Survey of Hazard Potential of Slope Movements Along the Karakoram Highway, Northeast Pakistan."

Duffy, John D., and Finegan, Mike, "1997 California Storm Damage: The Gorda Landslide."

Beck, Timothy, "Last Chance Grade and Wilson Creek Wall Landslides, Del Norte County, California."

Jensen, W. G.; Turner, J. P.; and Wolosick, J. R., "Soil Nail Wall for Stabilization of the Elbow Fill Slide, Snake River Canyon, Wyoming."

Marks, B. Dan, "Geogrid Reinforced Slope Repairs Airport Service Road Tri-State Airport Huntington, West Virginia."

Newman, F. Barry, and Adams, William R., Jr., "I-279 Landslide Repair."

Morris, A. J., and Wood, D. F., "Rock Slope Engineering and Management Process on the Canadian Pacific Railway."

Senior, S. A., "Rockfall Hazard Remediation Along Ontario Highways."

Sheahan, James M.; Hite, Stan L.; and Graybeal, Sam, "Design and Construction of Major Cuts on US 460 in Virginia."

Wright, Earl, "Rock Slope Engineering in Complex Geology: Jenkins By Pass."

Euge, Kenneth M., and Kandaris, Peter M., "Controlled Removal of Unstable Overhanging Rock above Roadway and Hydro Power Facility, Horse Mesa Dam, Salt River Canyon, West of Phoenix, Arizona."

Ruppen, Christopher A., "The MP 5.9 Rockslide Emergency Clean-up, Design and Construction."

Roem, Erik J., "Flexible Wire Rope Net Barriers for Debris Flow Protection: A Review of Installations to Date."

Andrew, Rick; Fry, David; and Bookwalter, Robert E., "Rock Fall Control Test Report #1 Rifle, Colorado."

- Kane, William F., and Beck, Timothy J., "Advances in Highway Slope Stability Instrumentation."
- Cole, Joshua H., and Mauldon, Matthew, "Rock Slope Analysis Using Interactive Visual Software."
- Park, Hyuckjin, and West, Terry R., "Discontinuity Orientation Measurements for Rock Slope Design in Western North Carolina."

Fiftieth - Anniversary Special Proceedings Historical Volume - Highway Geology Symposium National Steering Committee - 1999.

- 2<sup>nd</sup> Annual Symposium, February 16, 1951, Richmond, Virginia.  
Granger, A. T., "What Does The Engineer Expect Of The Geologist."
- 3<sup>rd</sup> Annual Symposium, February 29, 1952, Lexington, Virginia.  
Baker, R. F., "The Design of the Slopes of Highway Rock Excavations in West Virginia."
- 4<sup>th</sup> Annual Symposium, February 20, 1953, Charleston, West Virginia.  
Marshall, Harry E., "Some Experiences of the Department of Highways with Landslides in Ohio."  
Price, Paul H., "The Landslide Problem."
- 5<sup>th</sup> Annual Symposium, March 16, 1954, Ohio State University.  
Warrick, W. A., "Application of Geology To Highway Engineering as seen by a Highway Engineer."
- 6<sup>th</sup> Annual Symposium, February 18, 1955, John Hopkins University.  
Singlewald, Joseph T., "The Role of the Geological Surveys in Geology As Applied to Highway Engineering."
- 9<sup>th</sup> Annual Symposium, February 21, 1958, University of Virginia.  
Legget, Robert F., "Geology and Transportation Routes."
- 24<sup>th</sup> Annual Symposium, Sheridan Center, WY, August 9-10, 1973.  
Bukovansky, Dr. Michal, "Engineering Geology & Rock Mechanics Help to Design a Highway in Northern Spain."
- 25<sup>th</sup> Annual Symposium, May 23-24, 1974, Raleigh, North Carolina.  
Royster, David L., "Construction of a Reinforced Earth Fill Along I-40 in Tennessee."
- 28<sup>th</sup> Annual Symposium, August 10-12, 1977, Rapid City, South Dakota.  
Burgat, Virgil A., "Cut Slope Design Based on Stability Characteristics."  
Royster, David L., "Some Observations on the Use of Horizontal Drains in the Correction and Prevention of Landslides."
- 30<sup>th</sup> Annual Symposium, August 8-10, 1979, Portland, Oregon.  
Newton, Jackson, "Summary of Use of Sawdust for Highway Fills."  
Royster, David L., "Landslide Remedial Measures."
- 41<sup>st</sup> Annual Symposium, August 15-17, 1990, Albuquerque, New Mexico.  
Moore, Harry L., "Rockfall Mitigation along I-40, Cocke and Cumberland Counties, Tennessee."  
Findley, David P., and Deardoff, George, "17 Miles to Mount St. Helens: Operational Aspects of the Geotechnical Investigation."

- 42<sup>nd</sup> Annual Symposium, May 28-31, 1991, Albany, New York.  
 Burke, J., and LeFevre, S., "Rock Slope Inventory, Evaluation and Remediation for Sections Along the New York Thruway."  
 McGuffey, Verne, "Clues to Landslide Identification and Investigation."
- 43<sup>rd</sup> Annual Symposium, August 19-21, 1992, Fayetteville, Arkansas.  
 Henthorne, Robert; Jones, William; and Rockers, Larry, "Investigation and Remediation of Undermined Highway."  
 Moore, Harry, "The Use of Geomembranes for Mitigation of Pyritic Rock."
- 45<sup>th</sup> Annual Symposium, August 17-19, 1994, Portland, Oregon.  
 Thommen, Robert A., and Montejo, Manuel A., "Rock Retaining Wire Rope Net System Installation."  
 Sherman, William F., "The Impact of Registration of geologists on the Professional Involved in Highway Geology."
- 46<sup>th</sup> Annual Symposium, May 14-18, 1995, Charleston, West Virginia.  
 Johnson, Michael R., and Verling, Michael, "A Modified Presplit Blasting Method for Use in Environmentally Sensitive Areas."  
 West, Terry R., "Evolution of a Technique: Petrography of Aggregates for Concrete and Bituminous Highway Pavements."
- 49<sup>th</sup> Annual Symposium, September 10-14, 1998, Prescott, Arizona.  
 Glass, F. R., "A Large Wedge Failure Along Interstate 40 at the North Carolina-Tennessee State Line."

Fifty-First Annual Highway Geology Symposium - August 29-September 1, 2000  
 Washington State Department of Transportation - Seattle, Washington.

- Benson, Richard, "Mini-Case Histories of Five Roadway Investigations in Karst."
- Euge, Kenneth M., and Williams, Jason, "Roadway Planning and Development in Active Land Subsidence Areas Near Phoenix, Arizona."
- Lefchik, Thomas, and Ruegsegger, Rick, "Interstate Technical Group on Abandoned Underground Mines."
- Berkovitz, B., "Transition to Pro-active Practices for Applying Geophysical and NDT Methods."
- Neil, D.; DeMarco, M.; and Vandergrift, T., "Highway Site Characterization Using Seismic Tomographic Imaging."
- Salisbury, Nick, and Tunison, Scott, "Application of Specialized Drilling Technology and Equipment for Difficult Access."
- Hudec, Peter, and Grunner, Karol, "Quality and Durability of Aggregates Determined by Multivariate Statistical Analysis."
- West, Terry, "Deleterious Constituents in Indiana Aggregates: A Challenge for Non-Geologists to Identify."
- Dennis, Norman, "Use of Geographical Information Systems as a Slope Management Tool."
- Gaffney, Donald, "Stabilization Measures When a Landslide and Rockfalls Occur on the Same Slope."

Santi, Paul, and Elifrits, Dale, "Highway Landslide Stabilization Using Wick Drains."

Smithmyer, Andrew, and Shakoor, Abdul, "A Geotechnical Investigation of Storm-Induced Landslides Along a Section of I-77, Southeastern Ohio."

Connor, Sara von Schwind, and Gorski, Glen, "A Timely Solution for the Nojoqui Grade Landslide Repair US 101 South of Buellton, California."

Gorski, Glen, and Boehm, Dennis, "Assessing and Repairing Deep Foundations for Transportation Projects."

Kovacs, John, "Mechanically Stabilized Earth (MSE) Wall Repair Using Soil Nails: A Case History."

Meyers, John; Peterson, William; King, Richard; and Wyllie, Duncan, "Rock Foundations for Route 33 Bridge over the Lehigh River."

Peterson, Dave; LaFronz, Nick; and Cabrera, Tony, "Impacts of a Buried Paleochannel on Foundation Designs for the Box Canyon Wash Bridge, U.S. 93, Wickenburg-Kingman Section in Northwestern Arizona."

Szturo, John, and Chuaqui, Marcelo, "Foundation Remediation in Karst by Three Fluid Jet Grouting, Bill Emerson Memorial Bridge, Cape Girardeau, Missouri."

Tozer, Scott; Fabius, Mike; Mitchell, Andrew; and Maki, Gord, "Steep Nail Embankment Technology."

Downs, T; Hale, P; and Heirendt, K., "Mitigation of a Landfill Intersected by the Southern Beltway Transportation Project."

Fisher, James, and Shaar, Kamal, "I-77 Four-Mile Bridge to North of Memorial Tunnel."

Eliassen, Thomas, and Ingraham, Peter, "Review, Rockfall Hazard Rating and Repair of Aging Interstate Rock Cuts in Northeastern Vermont."

Badger, Tom, "Fracturing within Anticlines and Resultant Modes of Slope Instability."

Goumans, Corry, and Wolf, Ron, "Rock Slope Remediation on the Pennsylvania Turnpike - Bedford, PA."

Maerz, Norbert, "Highway Rock Cut Stability Assessment in Rock Masses Not Conductive to Stability Calculations."

Priznar, Nick, and Montonati, Frank, "Monitoring and Unstable Sandstone Cliff Face Removing Unstable Rock Material Utilizing Underground Mining Excavation Techniques."

Rorem, Erik, "The Use of Ring Nets for Flexible Rockfall Catch Barriers."

Wyllie, Duncan, and Glass, Russell, "Landslide Stabilization, Interstate 40, Pigeon River Gorge, North Carolina."

Fifty-Second Annual Highway Geology Symposium - May 16-18, 2001 - Maryland State Highway Administration, Maryland Geological Survey - Rocky Gap State Park, Cumberland, Maryland.

Zand, Scott; Ruppen, Chris; and Heirendt, Ken., "The Bedford Narrows Rockslide: Remedial Design, and Construction."

Bateman, Vanessa, "Management of Rock Slopes."

Wood, David F., and Morris, A. J., "Reducing Rockfall Hazard through Routine Maintenance."

Richard, Benjamin H., and Wolfe, Paul J., "Geophysics Before Highway Construction."

Miller, Richard D.; Xia, Jianghai; Park, Choon Byong; and Ivanov, Julian, "Shear Wave Velocity Field to Detect Anomalies Under Asphalt."

Rehwooldt, Eric B., and Reed, Robin E., "Characterizing of Karst Systems for a Highway Widening Study in Warren County, Virginia."

Newton, Tim; Anderson, Neil, Dr.; and Hatheway, Allen, Dr., "Application of Innovative Geophysical Methods for Subgrade Investigations in Karst Terrain."

Zhou, Wanfong, and Beck, Barry F., "Evaluation of Electrical Resistivity Tomography for Delineating Areas that are Susceptible to Subsidence and Sinkhole Collapse along I-70 near Frederick, Maryland."

Hanna, Kannan; Rock, Alan; and Hoekstra, Bart, "Three Dimensional Tomographic Imaging for Deep Foundation Integrity Testing."

Parish, D. W.; Borden, R. H.; and Johnson, R. S., "Slake Durability of Deep River Triassic Basin Rock."

Cho, Kyu H., and West, Terry R., "Evaluation of Carbonate Aggregates for Bituminous Overlays in Indiana."

Lommler, John C.; La Fronz, Nicholas J.; and Meyers, Robert A., "Full-Scale Deep Foundation Load Testing in Santa Fe Formation Materials, I-25/I-40 System Interchange (The Big I), Albuquerque, New Mexico."

Gaffney, Don; Mayle, Mark; and Heirendt, Ken, "Underground Coal Mining Along the Mon-Fayette Expressway: Issues, Assessment and Treatment."

Fischer, Joseph A; Fischer, Joseph J.; and Ottoson, Richard S., "Roadway Remediation - Case Histories in Karst."

Smerekanicz, John R., and Daly, James J., "Two Approaches to Overburden Stabilization with Limited Right-of-Way, I-87/287, New York State Thruway, Nyack, New York."

Humphries, Richard; Warburton, Wayne; and Daly, James, "An Approach to Earthquake Analysis of Rock Slopes."

Moore, Harry, "Miocene Fossils Discovered on Tennessee DOT Road Project."

Hale, P. A.; Downs, T. L.; and Heirendt, K., "Mitigation of Landfill Gas Migrating into an Area of Proposed Roadway Cut Slope for the Southern Beltway Transportation Project."

Fifty-Third Annual Highway Geology Symposium - August 13-16, 2002 - California State Department of Transportation and California Geological Survey, San Luis Obispo, California.

Andrew, R.; Arndt, B.; and Patterson, K., "Georgetown Incline Rockfall Study."

Carter, T.; de Graaf, P.; Barrett, S.; Booth, P.; and Pine, R., "Innovative Design for Challenging Highway Widening Project in Hong Kong."

Grassel, H.; Bartelt, P.; Ammann, W.; and Roth, A., "Behavior, Design and Reliability of Highly Flexible Rockfall Protection Systems for Highways."

Baumann, R., "The Worldwide First Official Approval of Rockfall Protection Nets Development and Experiences."

Spang, R., "Certification of Rockfall Barriers in Europe."

Wood, D., and Morris, A., "Replacement of Traditional Rockfall Detection with Innovative Catchment and Detection, A Case History at CPR's Red Rock Slide Fence."

Priznar, N.; Rice, A.; and Humphries, R., "Landslide and Rockfall Hazard Mitigation in a Multiple Intrusive Precambrian Diabase Series for US 60 in Salt River Canyon, Arizona."

Fisher, J., "Corridor H Section 16 From Elkins to Kerens Randolph County, West Virginia Rockslides Investigation & Corrective Measures."

LaMont, D.; Melita, J.; Peterson, D.; and LaFronz, N., "Construction-Phase Design Changes in Response to a Compound Rockslide, Preacher Canyon Section of State Route 260, Near Payson, Arizona."

Lane, R., and Fish, M., "Emergency Rock Slope Remediation at 'Deadman's Curve' in Pinkhams Grant, New Hampshire."

Norrish, N.; Findley, D.; Byers, T.; and Lowell, S., "Ruby Creek Rock Slope Stabilization."

Whitman, T., and Heyes, D., "The Stabilization of Red Top Landslide at American Canyon in Solano County, CA."

Kovacs, J.; Morris, M.; and Schultz, J., "Rock Slope Stabilization for the Boulevard of the Allies Reconstruction Pittsburgh, Pennsylvania."

Rosenberg, L., "Geology and GIS for Planning: An Example from Monterey County, California."

Wills, C.; Manson, M.; Brown, K.; and Wagner, D., "Geology and Landslide Mapping Along Highway Corridors in California: Factors Influencing Landslide Potential."

Andrew, R., and Lovekin, J., "I-70 Corridor Programmatic Environmental Impact Study."

Hapke, C., "Determining Landslide Volume Input to the Coastal Zone along the Big Sur, CA Coast."

Dessenberger, N.; Harrison, F.; and Kracum, J., "Going-To-The-Sun Road—Planning the Rehabilitation of a National Civil Engineering Landmark."

Arndt, B.; Andrew, R.; and Pihl, R., "Snowmass Canyon State Highway 82 Project."

Croxton, N., "Subsidence on I-70 in Russell County, Kansas Related to Salt Dissolution—A Short History."

Ruegsegger, L.; Beach, K.; and Rahmlow, F., "Interstate 77 Abandoned Underground Mine Remediation Project."

Momma, K.; Ohnishi, Y.; Ohtsu, H.; Wu, J.; and Nishiyama, S., "The Three Dimensional Discontinuous Deformation Analysis (3D DDA) and Its Application to Rock Toppling."

Fischer, J., "Earthquake Input Parameters for Slope Stability Analyses - Science or Sorcery."

Bliss, J.; Stanley, M.; and Long, K., "Role of Megaquarries in Future Aggregate Supply."

West, T., and Cho, K. "Petrography of Gravel Aggregates for Indiana Pavements."

Vierling, M.; Cross, R.; Smerekanicz, J.; and Ingraham, P., "Rock Excavations for Upgrading High Volume Roadways."

Cummings, R., "Highway Cut Slopes in Rock - Specialized Excavation and Enhancement Techniques."

Mah, C.; Matsubara, J.; and Barrett, S., "Innovative Construction Methods for Road Widening in Mountainous Terrain."  
Huyette, M., "Geologic Setting and Factors Influencing the Design and Construction of the New Carquinez Bridge and Crockett Interchange Structures, CA."  
Mumma, S.; "Slope Stabilization Utilizing High Performance Steel Wire Mesh in Combination with Soil Nailing and Anchoring."  
Saïd, S., "Chemical Grouting Beneath Cocadi-Cola and Airport Boulevard Tunnel."  
Turner, J.; Johnson, L.; and Boundy, B., "Performance of Permanent Ground Anchors for Landslide Stabilization."

Fifty-Fourth Annual Highway Geology Symposium - September 24-26, 2003 - Vermont Agency of Transportation, New Hampshire Department of Transportation, Vermont Geological Survey, University of Vermont, and Norwich University - Burlington, Vermont.

Szturo, John F., "Geotechnical Explorations - Great River Bridge."  
Fisk, Paul, and Breskin, Kitty, PE, "Economic Benefits of Seismic Refraction Investigations for Road-cut Design Studies."  
Fish, Marc, PG, "Rock bolting, Perspectives from a State DOT."  
Hager, G. Michael, "Seven S's of Geotechnical Doom."  
Moore, Harry L., "Recent Sinkhole Occurrences Along Highways in East Tennessee, A Historical Perspective."  
Duffy, John D.; Loe, Aileen; and Gaudio, Morgan, "Living with Landslides on the Big Sur Coast: The Challenges of Maintaining Highway I."  
Keaton, Jeffrey R., "Earthquake Ground Motion for Design of the Hoover Dam Bypass Bridge (US Highway 93)."  
Murray, Scott L., PE, "The Industrial Parkway - So You Want to Build a Road in Mine Spoils."  
Kase, Ed; Ross, Tim; Descour, Jozef; and Green, Don, "Leveraging Existing Infrastructure: Using What Is Already in the Ground."  
Journeaux, Daniel; Rousseau, Pierre; McNeilly, Mark; Smerekanicz, Jay; and Ingraham, Peter, "Rock Slope Scaling and Aesthetic Stabilization of two Historically Sensitive Palisades Sill Slopes in Weehawken, New Jersey."  
Adams, Angela L.; Zhou, Wanfang; Wang, Jie; and Beck, Barry F., "Using GPR Reflection Patterns And NP Measurements to Predict Sinkhole Risk in Central Florida."  
Priznar, Nick M., and Euge, Kenneth M., R.G., "GPR and FWD subsurface investigation techniques used to detect voids in variable subgrade soils on I-40 Near Topock Arizona."  
Anderson, Scott; Peterson, David E.; and Turton, Robert D., "Geologic Characterization for Bridge Foundations, Colorado River Bridge, Hoover Dam Bypass Project."  
Maerz, Norbert H., and Youssef, Ahmed, "A Risk-Consequence Hazard Rating System for Missouri Highway Rock Cuts."  
Watters, Robert J., and Katzenstein, Kurt, "Calibration and Accuracy of Rock Fall Simulation Programs."

Fischer, Joseph A., and McWhorter, James G., "Rock Slope Failures: A Legal Case History."

Lane, Dick, "Selected Case Histories of Rock Slope Stabilization in New Hampshire."

Von Rosenvenge, Ted, "Rock Slope Failure Case History Yanacachi, Bolivia, S. A.."

Kath, Randy L.; Sneyd, Deana; and Tyrrell, Katie, "Digital Mapping Assistant and Logger: Two Palm Applications For Digital Collection Of Geologic Data Using a PDA And a GPS Receiver And a Geotechnical Borehole Logging Application."

Badger, Tom, "A Large Volume Trim Blast for Slope Stabilization, US 97A near Wenatchee, Washington."

Van Roosendaal, Danny J.; Strater, Nicholas H.; and McKown, Andrew F., "Design of Passive Dowel Systems and Controlled Blasting Measures for Stabilization of Excavated Rock Slopes."

Dodson, Robert L., and Sheahan, James M., "Evaluation of Adverse Bedding Orientation on the Clifford Hollow Bridge Foundations."

Dean, Jeff, "Dispersive Clay Embankment Erosion."

Douglas, Thomas J.; Worley, Brad; and Mellor, Colin, "A Case Study of Methods used to Study a Sinkhole on Interstate 40, Pender County, NC."

Reidenbach, Vincent G.; Nevels, Jim.; and Hayes, Curt, "Statistical Analysis of Unconfined Compressive Strength of Rock Types Found in Oklahoma."

Bolt, Larry R.; Stuby, James L.; Li, Peter H.; and Martin, David, "Maryland's Experience with Large Scale Grouting for Roadway Stabilization in Karst Terrain of I-70."

Dessenberger, Nancy C.; Meyers, Robert A.; and Harrison, Francis E., "Slope Design for Improvements to New Mexico State Highway 48, near Ruidoso, New Mexico."

Schnabel, Harry W., "Case Histories of Tieback and Soil Nail Walls For Roadways."

Dessenberger, Nancy C., and Harrison, Francis E., "Effective Interpretation of Borehole Inclinator Profiles: What is Really Slope Movement and What is Probably Something Else."

The following papers were not presented at the Symposium however they were submitted for publication in the Proceedings:

Fowler, Brian K., "Contingent Mechanisms of Stability and Collapse 'Old Man of the Mountains' Human Profile, Franconia Notch, New Hampshire."

Yunhua, Lu, and West, Terry R., "Stability Analysis of the Rock Ridge Dam, Below Interstate 80/94, Thornton Quarry, Chicago, Illinois."

Fifty-Fifth Annual Highway Geology Symposium - September 7-10, 2004 - Kansas Department of Transportation, Missouri Department of Transportation, Kansas Geological Survey, Missouri Geological Survey and Resource Assessment Division, University of Missouri-Kansas City, Kansas City, Missouri.

- Harris, Clint, P. E., Terracon, "Geotechnical Challenges of Design/Build Transportation Projects."
- Beckett, Darrin, P. E., QORE, Inc., and Lee, Craig, P. E., QORE, Inc., "You Want It Where? Design Challenges Associated With Constructing the New Dolwick Connector Into the Existing I-275 Embankment."
- Miller, Richard D., Kansas Geological Survey, "Identifying Areas with Subsidence Potential beneath U. S. 50 Highway in Eastern Reno County, Kansas, using High-Resolution Seismic Reflection."
- Thitimakorn, T., University of Missouri-Rolla; Anderson, N., University of Missouri-Rolla; Fennessey, T., Missouri DOT; and Lauer, R., Missouri DOT, "A 2-D MASW Shear-Wave Velocity Profile Along A Test Segment of I-70, St. Louis, Missouri."
- Sui, Yinghui, Purdue University; Liu, Huagen, Purdue University; and West, Terry R., Purdue University, "Remote Sensing Studies, Carroll and Tippecanoe Counties, Indiana, With Engineering Geology Applications."
- Martin, A. David, Maryland State Highway Administration, "Case History of the South Street Sinkhole."
- Fischer, Joseph A., Geoscience Services; Jagel, Donald L., Advanced Geophysical; Fischer, Joseph J., Geoscience Services; and Ottoson, Richard S., Geoscience Services, "The Expectations and Realities of Geophysical Investigations in Karst."
- Rorem, Erik, Geobruigg Protection Systems, "Debris Flow Remediation."
- Tinsley, Ryan S., Michael Baker Jr., Inc.; and Shakoor, Abdul, Kent State University, "A Detailed Study of The New Baltimore Landslide Along Pennsylvania Turnpike."
- Burk, R., URS; Norrish, N., Wyllie & Norrish Rock Engineers; Lowell, S., WSDOT; Molinari, M., URS; LaHusen, R., USGS; Schick, J., URS; and Strickler, B., URS, "Washington SR-20 Rock Avalanche - Characterization, Analysis and Monitoring."
- Croxton, Neil, Kansas Department of Transportation, "The Russell I-70 Sinkhole Saga Continues."
- Loehr, J. Erik, University of Missouri-Columbia; Bowders, John J., University of Missouri-Columbia; Chen, Cheng-Wei, University of Missouri-Columbia; Chandler, Katy S., University of Missouri-Columbia; and Carr, Patrick H., The Judy Company, Inc., "Slope Stabilization Using Recycled Plastic Pins."
- Gelfenbein, Drew; Benda, Christopher, P. E.; and Ingraham, Peter, P. E., "A Masonry Wall and Slide Repair Using Soil Nails and Rock Dowels."
- Fisher, James C., West Virginia DOT, "US 35/I-64 Interchange, Embankment and MSE Wall Design and Construction Using Lightweight Backfill."
- Carr, Patrick, The Judy Company, "Soil Nailing: DOT's Warming Up to New Technology."

Dennis, Norman D., Ph.D., P. E., University of Alabama; Wong, Voon, McClelland Engineers; and Ooi, Chong Wei, Dept. of Engineering, University of Arkansas, "Monitoring Shallow Slope Failures in the Ozark Plateau Using Time Domain Reflectometry."

Harrison, Frank, P. E., Golder Associates, Inc.; Morrison, Kimberly, P. E., R. G., Golder Associates, Inc.; Collin, Jim, P. E., Ph.D., The Collin Group; and Anderson, Scott, P. E., Ph.D., FHWA, "Design Considerations for Hybrid MSE/Shoring Retaining Walls."

Blanco, Awilda M., University of Missouri-Columbia; Deeken, John J., University of Missouri-Columbia; Bowders, John J., University of Missouri-Columbia; Likos, William J., University of Missouri-Columbia; and Donahue, John P., MODOT, "Observations on Drainage and Strength Characteristics of Missouri Roadway Base."

Shevlin, Timothy D., Civil & Environmental Consultants; and Shakoor, Abdul, Kent State University, "Use of Lime Kiln Dust for Stabilization of Fine-Grained Subgrade Soils."

Harris, Pat, Texas Transportation Institute, "Exploding Roads in Texas: an Ounce of Prevention is Worth a Pound of Cure."

Poepsel, Patrick, and Sheahan, James, HDR, Inc., "Subsurface Surprises in a Fast-Track Design/Build Project."

Davis, George H., MODOT, "Granites of the United States and Relationships Pertaining to their Use as Aggregate."

Frechette, Daniel N., Ph.D., P. E., AMEC Earth & Environmental, Inc., and LaFrontz, Nicholas J., P. E., AMEC Earth & Environmental, Inc., "Grout Stabilization of Compressible Embankment Fills Beneath Bridge Approach Slabs, SR51 HOV Lanes Design-Build Project, Phoenix, Arizona."

Thompson, Michael, Golder Associates, "Mine Paste-Soil Backfills - A new Application of Paste Technology."

Han, Jie, University of Kansas; Collin, James G., The Collin Group; and Huang, Jie, University of Kansas, "Recent Development of Geosynthetic-Reinforced Column Supported Embankments."

Priznar, Nick, AZDOT, and Cummings, Robert, Saguaro GeoServices, Inc., "Investigating the Potential Impacts of Past Mining Activities, on the Widening of SR68, Mohave County, Arizona."

Keaton, Jeffery, AMEC, and McCormack, David H., Aspect Consulting, "Philosophy of Evaluating Surface-Fault-Rupture Hazards in the Puget Sound Region, Washington."

Van Roosendaal, Danny J., Haley & Aldrich, Inc., and McKown, Andrew F., Haley & Aldrich, Inc., "Geological and Design Considerations for Replacement of Suspension Cable Anchorages, Bear Mountain Bridge, Hudson River, New York."

Bateman, Vanessa, Tennessee Department of Transportation, "Rockfall Closure Impact and Economic Assessment for Rockfall Sites in Tennessee."

Trainum, Matthew, Iowa Dept. of Transportation, "Soil Survey Use of GPS GIS with GPS and Automation Applications for Soils Design."

Franseen, Evan, Kansas Geological Survey; McKirahan, Jason, Marathon Oil Company; and Goldstein, Robert H., University of Kansas, "Evaluation of Some Geologic Factors Affecting the Quality of Limestone Construction Aggregate."

Maerz, Norbert H., University of Missouri-Rolla; Youssef, Ahmed, University of Missouri-Rolla; and Lauer, Robert, MODOT, "MORFH RS: A Rockcut Rating System for Missouri Highways."  
Hunley, Charles "Tony", P. E., S. E., American Consulting Engineers, PLC; and Schaefer, Kurt, P. E., FMSM Engineers, "Drilled Shaft Design, Construction, and Inspection Challenges on the Kentucky Lock Project."  
Zhang, Lijun, Morgan State University - Poster Session: "Analysis and Assessment of the Slope Stability in a Copper Mine."

Fifty-Sixth Annual Highway Geology Symposium - May 4-6, 2005 - North Carolina Department of Transportation Geotechnical Engineering Unit, Wilmington, North Carolina

Szturo, John F., "Construction Monitoring, Sinking, and Inspection of Dredged Caisson Foundations US-82 Mississippi River Bridge, Greenville, Mississippi."  
Lowell, Steve; Gates, William; Moses, Lynn; Lukkarila, Chad; Fisher, Brendan; Badger, Tom; and Norrish, Norman, "Conceptual Designs and Cost Estimates: a Critical Step in Managing Unstable Slopes along Washington State Highways."  
Sharma, Lok M., P. E.; and Stanley, Robert, P. E., "Highway US-34 Cut Slope Stabilization, Mt. Pleasant, Iowa."  
Harris, W. Burleigh, and Douglas, Thomas J., "Stratigraphic Interpretations of Limestone, Geophysical Surveys, and Borehole Data Identify Potential Impact on Highway and Guide Future Quarry Expansion."  
Wood, David F., and Journeaux, Daniel, "Rock Slope Stabilization, Decew #2 Generating Station, St. Catharine's Ontario."  
Moore, Harry, "The Use of Graded Solid Rock for Rock Pad and Rock Embankment Construction along Highways in Karst Areas of East Tennessee."  
Morris, A. J., P.Geol., "A Hybrid Rock Fall Protection System Along the Canadian Pacific Railway Near Field B. C."  
Fish, Marc, "3D Interpretations of Subsurface Soil and Rock Conditions."  
Billington, Ned, L. G., and Hering, David, L. G., P. E., "Determining Soil and Rock Stiffness With MASW - Investigations of the 2004 I-40 Landslide and other Projects."  
Lane, Richard; Fishman, Ken; and Salmaso, Andrew, "Exhuming Rock Reinforcement."  
Fishman, Ken; Lane, Dick; and Bojarski, Jim, "Condition Assessment of Thirty-Year Old Rock Reinforcements."  
West, Terry R., and O'Brien, Joan, "A Course Aggregate Paradox for Indiana Highway Pavements, Less is Better."  
Gaffney, Donald V., "Specification of Excavated Rock for Embankment Use."  
Gill, J. Brant, H.B.Sc., "Innovative Aggregate Resource Evaluations Using Electrical Resistivity Imaging."  
Rangaraju, Prasad, Ph.D., P. E., "Characterization of South Carolina Aggregates Using Micro-Deval Abrasion Test."

Senior, Stephen A., P.Eng., "Determination of a Rock Bulking Factor for Highway Construction."

Bean, Jeffrey J., P. E., and Cheng, Robin, P. E., "Providing Structural Support and Reducing Long-Term Settlement in the Soft Silts and Clays Above the Cooper Marl. Ashley Phosphate Road and Route 52 Flyover, Charleston, S. C."

Keaton, Jeffrey R.; Geraci, Jeffrey; and Stutzman, Brian, "Repair of Voids Above Jack-and-Bore Pipeline Installations Under a Divided Highway."

Meijboom, Albert, and Nelson, Barry, "*Too Little Too Late* or When to Include a Geologist in Highway Projects."

Latham, Rebecca S., and Wooten, Richard M., "Preliminary Findings on the September 16, 2004 Debris Flow at Peeks Creek, Macon County, North Carolina."

Wooten, Richard M.; Reid, Jeffrey C.; Latham, Rebecca S.; Medina, Michael A.; Bectehtel, Randy; and Clark, Timothy W., "An Overview of the North Carolina Geological Survey's Geologic Hazards Program - Phase I."

Arndt, Ben, P. E., P. G.; Andrew, Richard, P. G.; and Yeh, Shan-Tai, P. E., "Landslide Investigation and Mitigation Along US-160 Between Durango and Mancos Colorado using Lightweight Fill, Ground Anchors, and Rockery Buttresses."

Sheahan, James M., P. E.; Knott, David L., P. E.; and Hite, Stanley L., P. E., "Ten Year Performance of a 400-foot High Rock Cut in Coal Measures Rocks."

Denesha, Carrie, M. S., and Henthorne, Robert, P. G., "Geotechnical Challenges Associated with US-59; Lawrence, KS to I-35 near Ottawa, KS."

Priznar, Nick; Lindberg, Paul; and Liu, J. J., "Geology, Landslides and Retaining Structures, on Arizona SR-89A, Jerome, Arizona."

Croxton, Neil M., P. G., CPG, "Geophysics and Site Characterization K-18 over the Kansas River."

Sylwester, Richard E., "Geophysical Methods for Site Characterization of Offshore Highway Structures."

Artman, Lawrence J., II, P. G.; Heirendt, Kenneth M., P. G.; and McCahan, Matthew L., "Geotechnical Challenges of the Mon/Fayette Expressway Project, PA 51 to I-376, Near Pittsburgh, Pennsylvania."

Rorem, Erik J., "Performance of Flexible Debris Flow Barriers in Fire Burned Areas, State Route 18, San Bernardino County, CA."

Mackiewicz, Scott M., Ph.D., and White, David J., Ph.D., "The Importance of Lateral Stress in Geotechnical Design ... but How Do We Measure It?"

Fisk, Paul; Holster, Keith; Nichols, Silas; and Connors, Peter, "Peat Mapping Using Resistivity."

Lefchik, Thomas E., P. E., and Beach, Kirk, "Geotechnical Management Systems Where Do We Go From Here?"

Yuhr, Lynn B., P. G.; Kaufmann, Ron; Benson, Richard C.; and Casto, Daniel, "MASW - From Detailed Investigations to Regional Surveys Along Roadways: Advantages and Limitations."

Surti, Nilesh, P. E., "I-40 Slope Repairs in Western, NC."

Bigger, Joseph, "I-40 Toe Scour Protection System."

Barrett, Stephen; Verburg, Rens; Bertrand, Valerie; Ross, Cheryl; Fillipone, Jeff; and Munday, Dave, "Assessing the Potential Environmental Impact of Acid Rock Drainage (ARD) and Metal Leaching (ML) for the Sea to Sky Highway Improvement Project Between Vancouver and Whistler, British Columbia."

Atkins, Rowland, M.Sc., P.Geo, "Building The Case for Soft Solutions: Coastal Erosion and the 2004 Hurricane Season in Florida."

Crowson, Ronald A.; Mallinson, David; Kaufman, Ron; and Admay, Thomas V., "Geophysical Applications for Bridge Design, North Carolina Outer Banks: Results of Marine Seismic and Resistivity Investigations in the Pamlico Sound."

Fifty-Seventh Annual Highway Geology Symposium - September 26-29, 2006 - Colorado Department of Transportation and Colorado Geological Survey - Breckenridge, Colorado.

Arndt, Ben; Allen, Tom; and Andrew, Richard, "Landslide investigation and mitigation along US 160 between Durango and Mancos, Colorado, using lightweight fill, ground anchors, and rockery buttresses."

Dessenberger, Nancy C., and Heppler, Leslie A., "The 2005 Logan Bluff Landslide repair. But what about next time?"

Gaffney, Donald V., and Tinsley, Ryan S., "Non-structure alternatives for incidental slopes."

Vaskov, Eugene, and Ruppen, Christopher, "Recipe for trouble: Just add water."

Schultz, Joseph W.; Schutte, Richard B.; and Newman, F. Barry, "SR-48 Landslide Repair."

Litkenhaus, Mark A., "Widening US 199 over Pine Mountain, Letcher County, Kentucky."

Moore, Harry; Sutton, George; and Oliver, Len, "Repair of small scale embankment failures and landslides in east Tennessee using the railroad rail repair method."

Sirles, Phil, and Rock, Alan, "Analysis of seismic refraction data - a three-decade perspective."

Sirles, Phil; Rock, Alan; and Haramy, Khamis Y., "Subsurface modeling using seismic refraction data."

Lambert, Douglas W.; Adams, Glen; and Parker, Veronica, "Use of refraction Micro Tremor (ReMi) data for shear wave velocity determination at an urban bridge rehabilitation site."

Croxtton, Neil M., "Dodging salt sinkholes: seismic reflection and K-61 near Inman, Kansas."

Haneberg, William C.; Norrish, Norman I.; and Findley, David P., "Digital outcrop characterization for 3-D structural mapping and rock slope design along Interstate 90, Snoqualmie Pass, Washington."

Kemeny, John; Henwood, Justin; and Turner, Keith, "The use of ground-based LIDAR for geotechnical aspects of highway projects."

Rice, Anthony H.; Priznar, Nick; Barela, Larry; Speigl, Teresa; and Melvin, James, "Accelerated investigation, design, bidding and construction to realign highway US 191, Upper Chase Creek, Morenci, Arizona."

Henwood, Justin; DeMarco, Matt; and Martinez, Charlie, "Shrink and Swell Estimation: Practices and Procedures."

Morrison, K. F.; Harrison, F. E.; Collin, J. G.; and Anderson, Scott, "Design of an innovative retaining wall systems for highway construction in steep terrain."

Higgins, David; Peterson, Gary; Potter, Tim; and Hogan, Daniel, "Replacing the US 101 Beverly Beach Bridge, Lincoln County, Oregon."

Gates, William; Fisher, Brendan; Lukkarila, Chad; Deputy, Kami; Sherwood, Samantha; and Alzamora, Daniel E., "Design of rockery walls on marginally stable talus slopes; Taylor River Road, Gunnison County, Colorado."

Elfass, Sherif; Norris, Gary; and Valceschini, Rob, "Surprising soil behavior at Zolezzi Lane."

West, Terry; Celaya, Brandon J; and Haddock, John E.; Presented by Senior, S., "Petrography of coarse aggregates used in design of stone matrix asphalt pavements in Indiana."

Fischer, Joseph A.; McWhorter, James G.; and Salmaso, Andrew, "Guess what dropped in for breakfast?"

Lane, Richard M., and Fish, Marc, "NHDOT Response to the destructive forces of nature: Alstead Flood 2005."

Bateman, Vanessa, and Oliver, Len, "Case Study: Monteagle Mountain Rockfall Project."

Darigo, N. J., "Karst vulnerability considerations in highway route selection, Juneau area, Alaska."

Arndt, Ben; Ortiz, Ty; and Andrew, Richard, "I-70 Georgetown Incline rockfall mitigation feasibility study, Georgetown, Colorado."

Pease, Kent; Parekh, Minal; and Ortiz, Ty, "US Highway 6 - Clear Creek Canyon rockslide: working to reopen a major road closure."

Wendeler, C., et al., Presented by Kalejta, J., "Field testing and numerical modeling of flexible debris flow barriers."

Dessenberger, Nancy C., and Skurski, Michael, "Rolling rocks in Peru for calibration of the CRSP model."

Lister, Donald R.; Atkins, Rowland J; McNamee, Jason; and Buchanan, Rob, "British Columbia Provincial Highway Tsunami Hazard Evaluation."

Atkins, Rowland J., and Morgan, Peter W., "How wide is a river? Bridge design and applied geomorphology."

Romero, Victor S., and Mimura, Clayton, "The Role of engineering geology on rehabilitation of the Likelike Highway Wilson Tunnel, Oahu, Hawaii."

