



2010 TECHNICAL SESSIONS

Wednesday, September 22, 2010 - Afternoon

TECHNICAL SESSION #1: SYMPOSIUM: Charleston Earthquakes

Room: Carolina A

Moderators: David Fenster and Ross Hartleb

1:40-2:00	STEVENSON, D.	Re-evaluation of South Carolina Earthquake Catalog
2:00-2:20	HEIDARI, T.	Liquefaction Potential of Quarternary Deposits in Mount Pleasant, South Carolina, Based on the 1886 Charleston Earthquake
2:20-2:40	TALWANI, P.	Studies Related to the Discovery of a Prehistoric Sand Blow in the Epicentral Area of the 1886 Charleston SC Earthquake—Trenching and Geotechnical Investigations
2:40-3:00	GASSMAN, S.	Magnitudes of Charleston Earthquakes from Geotechnical Data
3:00-3:20	HARTLEB, R.	CEUS Liquefaction Database: Revised Recurrence Estimates of Large Earthquakes from the Charleston Seismic Source
3:40-4:00	LEVINE, N.	HAZUS-Based Comparison of the 1886 Summerville (Charleston) and the 2010 Haiti Earthquakes
4:00-4:20	JAUMÈ, S.	Ambient Seismic Noise Estimates of Building and Soil Resonance in Charleston, South Carolina
4:20-4:40	CHAPMAN, M.	Cenozoic Faults Imaged in the Epicentral Area of the 1886 Charleston Earthquake

TECHNICAL SESSION #2: SYMPOSIUM: Engineering Geology in the Remediation and Maintenance of Dams I

Room: Carolina B

Moderator: John Charleton

1:40-2:20pm	ROGERS, J. D.	Hales Bar and the Pitfalls of Constructing Dams on Karst
2:20-2:40pm	NIELD, M.	Potential Sliding Failure and Anchor Design at Dover Dam, Ohio
2:40-3:00pm	BALLEGEER, J.	Raising Scoggins Dam: Shallow Landslides, Large Block Slides and Fault Rupture
3:00-3:20pm	STANTON, J.	Wolf Creek Dam, a 40-Year Technological Evolution, Meeting the Challenge of Reducing Seepage Through a Karst Foundation, Part 1: The First Round, Averting a Near Failure with Emergency Grouting and a Ground Breaking Combination Barrier Wall - The 1970's.
3:40-4:00pm	BOMAR, J.	Wolf Creek Dam, a 40-Year Technological Evolution, Meeting the Challenge of Reducing Seepage Through a Karst Foundation Part 2: The Current Remediation, Modern Grouting and New Technology for Excavation, Installation, Measurement, and Qc Verification of the Next Generation Barrier Wall – Today
4:00-4:20pm	MICKIEWICZ, S.	Engineering Geologic Mapping of the RCC Foundation at Deep Creek Dam, Yadkin County, North Carolina
4:20-4:40pm	GREENE, B.	Engineering Geology and the Construction of an Auxiliary Spillway for Folsom Dam
4:40-5:00pm	DAVIDSON, T.	The Geoforensic Investigation of Ball Mountain Dam

TECHNICAL SESSION #3: SYMPOSIUM: Mineral Aggregates in Transportation

Room: Calhoun

Moderators: Nancy Whiting

1:40-2:00pm	WHITING, N.	Welcome and Introduction
2:00-2:20pm	LANE, D.S.	The Varied Applications and Issues of Mineral Aggregates in the Transportation Infrastructure
2:20-2:40pm	STOKOWSKI, S.	Predictive Geologic Criteria for Performance Classification of Rock for Construction Aggregate Used in Pavements
2:40-3:00pm	WANG, L.	Aggregate Characterization by LIM, Linear Laser System, X-Ray CT Scanner, and Portable Imaging System
3:00-3:20pm	RANGARAJU, P.	Toughness and Soundness Behavior of South Carolina Aggregates and Correlation with Field Performance of HMA Pavements
3:40-4:00pm	POWERS, L.	Implications of Diminishing Resources of High Quality Aggregate for Concrete

4:00-4:20pm	JAHN, D.	Modifying Project Specifications to Better Fit Actual Field Conditions, Part 1
4:20-4:40pm	JAHN, D.	Modifying Project Specifications to Better Fit Actual Field Conditions, Part 2

TECHNICAL SESSION #4: SYMPOSIUM: Visioning the Future of Engineering Geology: New Trends in Assessing Professional Competencies Across the Spectrum of Geo-Engineering Practice: A Step Toward Resolving Concerns in Professional Practice and Academic Programs

Room: Pinckney

Moderators: Keith Turner, Jerry Higgins and Robert Tepel

1:40-2:00pm	TEPEL, R.	What is “Geo-Engineering” and Why Do We Need This New Term?
2:00-2:20pm	TURNER, A.	Defining Competencies for Geo-Engineering: Implications for Education and Training
2:20-2:40pm	SCHMITZ, D.	Geology Program Accreditation
2:40-3:00pm	HIGGINS, J.	Status of Geological Engineering Programs in North America
3:00-3:20pm	WILLIAMS, J.	Supply and Demand for New Professional Engineering Geologists
3:40-4:00pm	MATHEWSON, C.	Is Engineering Geology Doomed?
4:00-4:20pm	KEATON, J.	Geo-Engineering Practice in the Consulting Industry
4:20-4:40pm	MATHESON, G.	Responsibilities for Developing Future Geo-Professionals
4:40-5:00pm	GARSJO, M.	The Elevator Speech: LP Version

Thursday, September 23, 2010 – Morning

2010 ANNUAL MEETING GEOLOGIST LICENSURE WORKSHOP (8:00am-10:00am)

Room: Carolina A and B

Moderator: Kenneth G. Neal

In September, the Licensure Committee was established as an operating committee. Our Charter Statement/Purpose reads as follows: “The Licensure Committee’s primary function is to provide the Association with guidance and support in its implementation of the AEG Policy on Licensure.” We are now available to help implement this policy by providing assistance to local sections in dealing with licensure/registration issues. The AEG Licensure Committee is hosting a 2-hour workshop on Thursday, September 23, from 8 to 10 AM. The purposes of the workshop are to introduce the committee to the general AEG membership, to outline our committee’s perceived roles and responsibilities, to gain and discuss new ideas on improving our support of licensure, to gain commitment from AEG members to work to support new licensure and protect existing licensure programs, and to discuss the role of lobbyists and why they are critical to the process.

TECHNICAL SESSION #6: SYMPOSIUM: Engineering Geology in the Remediation and Maintenance of Dams II

Room: Calhoun

Moderator: Terry Downs

8:00-8:20	PATRICK, P.	Landslide Stabilization Design Study, Pervari Dam, Pervari, Turkey
8:20-8:40	DEPUTY, K.	Fish Nets Aren’t Just for Dressing Up Anymore – Yale Dam Fish Netting Installation
8:40-9:00	FRIEND, E.	Field Investigations for Design of a Grout Curtain at Success Dam
9:00-9:20	THACKER, B.	Kingston Coal Ash Facility Failure: What Caused it and Why it Matters
9:20-9:40	ROGERS, G.	Construction, Remediation and Monitoring at Dam Sites with Artesian Aquifers
9:40-10:00	CANNON, R.	Geologic Issues and Remediation of Liner at the Ludington Pumped Storage Plant

TECHNICAL SESSION #7: General Geologic Hazards

Room: Pinckney

Moderator: Kami Deputy

8:00-8:20	DENTON, R.	Too Many Sinkholes...Not Enough Time: The Use of an Integrated Remote Sensing and Ground Survey Approach to Expedite a Large-Scale Karst Assessment
8:20-8:40	DANIEL, J.	Evaluation of Two Karst Environments Using Electrical Resistivity Surveys
8:40-9:00	BRYAN, P.	Creating Sustainable Projects in the Developing World—A Sustainable Solution to Flooding in a Karst Terrain
9:00-9:20	ASHLAND, F.	The Contribution of Snowmelt to the Annual Groundwater-level Rise in Selected Northern Utah Landslides
9:20-9:40	ACIKALIN, E.	GIS-Based Landslide Susceptibility Analysis of Green Mountain, Jefferson County, CO
9:40-10:00	BRACKMAN, T.	Preliminary Results Using the Refraction Microtremor Method for Delineation of Landslides in Northern Kentucky

Thursday, September 23, 2010 – Afternoon

TECHNICAL SESSION #8: SYMPOSIUM: Landslides and Slope Stability – Part I

Room: Carolina A

Moderator: Jerry Higgins and Paul Santi

2:00-2:20	WATTS, C.	3D Visualization of Rockfalls at Glacier Point, Yosemite National Park, CA, Using ArcGIS and Google Earth
2:20-2:40	WYLLIE, D.	Tornado Mountain Rock Fall Events – Detailed Documentation
2:40-3:00	SHAKOOR, A.	Cut Slope Design for Mudrock Stratigraphic Sequences
3:00-3:20	GATES, W.	Eagle Point Bluff, Rock Slope Mitigation, Dubuque, Iowa
3:40-4:00	PAINTER, P.	ODOT's Revision to Rock Cut Slope & Catchment Design
4:00-4:20	PAINTER, P.	ODOT's Recent Rockfall Mitigation Projects: Design vs. Emergency
4:20-4:40	LOVEKIN, J.	Rockfall Mitigation: Methods to Determine Solutions, Case Histories and Emerging Technologies
4:40-5:00	AMEND, F.	Innovations in Rockfall Barriers and the New European Standard ETAG 027

TECHNICAL SESSION #9: SYMPOSIUM: Environmental Characterization and Remediation

Room: Carolina B

Moderators: Suman Ghosh and Syed Hasan

2:00-2:20	SLATER, L.	Advances in Geophysical Monitoring Technologies for Characterization and Remediation Monitoring of Contaminated Sites
2:20-2:40	MOYLAN, J.	Design Site Characterization Dictated by Pertinent Site Conditions and the Selected Remedial Technology
2:40-3:00	BOHLING, G.	Centimeter-Scale Characterization of Hydraulic Conductivity at the MADE Site Using Direct Push Techniques
3:00-3:20	MAZZARESE, M.	Use of Advanced Site Characterization Tools for High Resolution Injection Design Support
3:40-4:00	SINGH, A.	Statistical Evaluation of a Multiple Increment Sampling Design Approach for Cleanup Decisions at Superfund Sites
4:00-4:20	QUINDRY, G.	Subsurface Methane Risk Mitigation: Remedial Solutions at a New Middle School in Signal Hill, California
4:20-4:40	FINNERAN, K.	Effect of Fe(III) Reduction in the Biodegradation of Chlorinated Ethenes
4:40-5:00	BINDER, J.	Seep Control and Treatment Using Modification to Natural Stream Morphology
5:00-5:20	ODAH, M.	Accelerated Remediation Technology for Cost-Effective Remediation of Groundwater

TECHNICAL SESSION #10: Computer Applications For Geologic Investigations and Reporting

Room: Calhoun

Moderators: Wendy Zhou and Bob Craig

2:00-2:20	MARBERRY, M.	Computer Assisted Field Data Collection
2:20-2:40	BARRY, T.	An Update on GIS Software, Data, and Techniques Applied to Environmental and Engineering Geology Projects
2:40-3:00	HOLTZ, W.	An Evaluation Tool for Use in Projecting the Completion of Drilling Activities
3:00-3:20	BEACH, K.	Integrated Geologic Hazard Management System
3:40-4:00	ZHOU, W.	A GIS-Based Study on Water Resource for Oil Shale Development in the Western US
4:00-4:20	RUTLEDGE, A.	A 3-D Model is Worth a Thousand Cross Sections
4:20-4:40	SIMPSON, B.	A Picture is Worth a Thousand Words, a 3-D Photogrammetry Model? Priceless!!!
4:40-5:00	KAUFMAN, C.	Environmental Hazards: Using GIS to Map Ataxic Neurodegenerative Satiety Deficiency (ANS) Syndrome in Charleston, SC

TECHNICAL SESSION #11: Tunneling

Room: Pinckney

Moderator: Michael Piepenburg

2:00-2:20	HECKMAN, A.	Rock Mass Analysis for the No Business Creek Tunnel Project, Gwinnett County, Georgia (A Case Study)
2:20-2:40	DAUGHERTY, C.	Using Laser Distometers to Measure Tunnel Deformations
2:40-3:00	SOULE, N.	Historic Development Adds Challenge to Storm Drain Tunnel Under Railroad
3:00-3:20	BAILEY, J.	Use of Innovative Technology to Assist with Repair of Deep Bore Tunnel Machine

TECHNICAL SESSION #12: Geophysics for Geotechnical and Geoenvironmental Applications

Room: Pinckney

Moderator: Jeremy Strohmeier

3:40-4:00	IKARD, S.	A Saline Pulse Test Method to Detect Preferential Fluid Flow Pathways in the Shallow Subsurface Using Self-Potential Signals
4:00-4:20	BERGSTROM, J.	Geophysical Investigation for Characterizing a Granite Deposit
4:20-4:40	BERGSTROM, J.	Geophysical Borehole Logging for Fracture Mapping Using Televiewers and Other State-of-the Art Logging Tools
4:40-5:00	PAINTER, M.	Subsurface Characterization of a VOC-Contaminated Site Using Three Geophysical Methods: MASW, Refraction, And ERI

Friday, September 24, 2010 – Morning

TECHNICAL SESSION #13: SYMPOSIUM: Landslides and Slope Stability II

Room: Carolina A

Moderators: Jerry Higgins and Paul Santi

8:00-8:20	ASHLAND, F.	Characteristics and Movement of the Meadow Creek Landslide, Part of the Coal Hill Landslide Complex, Southwestern Utah
8:20-8:40	FISHER, B.	Limón Dam, Peru – Large Rock Slope Failure Evaluation
8:40-9:00	PIPPIN, C.	An Overview of the I-40 Rock Slide Hazard Mitigation, Haywood County, NC
9:00-9:20	KUHNE, J.	Stabilization of a Large Potential Wedge Failure Along Interstate 40 in Western North Carolina, October 2009
9:20-9:40	JOURNEAUX, D.	Emergency Rock Remediation I-40
9:40-10:00	SMEREKANICZ, J.	Emergency Rockslide Mitigation in Eastern Tennessee, US 64 Through the Ocoee River Gorge, 2009 – 2010
10:20-10:40	BAUER, J.	“Your Country is Falling Apart,” Response to Recent Landslides by the North Carolina Geological Survey
10:40-11:00	DUPLANTIS, S.	Mapping and Dating of Landslides in Clackamas County, Oregon, Using LiDAR, Spectral Analysis, and a Soil Chronosequence
11:00-11:20	MICKELSON, K.	LiDAR-Based Landslide Inventory and Susceptibility Mapping for the Panther Creek Watershed, Coast Range, Oregon
11:20-11:40	JOHNSON, S.	The Delineation and Characterization of Active Landslides in the Greater Cincinnati Area Using LiDAR-Derived Maps
11:40-12:00	JOYCE, J.	Geology of the Cerca de Cielo Creep and Surge Landslide, Ponce, Puerto Rico

TECHNICAL SESSION #14: General Engineering Geology

Room: Carolina B

Moderators: Benjamin Black, Sheila Kluck, and Patty Bryan

8:00-8:20	BEACH, K.	ODOT & University Partnership: Development of CPT Investigation Capabilities
8:20-8:40	HUBBARD, E.	Geotechnical Investigation of The Truckee Meadows for Future Levee Design
8:40-9:00	BLACK, B.	Geotechnical Assessment, Evaluation and Repair of the Silver Comet Trail, Hiram, Paulding County, Georgia
9:00-9:20	EVANS, S.	Elwha River Road Bridge: Exploration and Engineering Challenges
9:20-9:40	BEACH, K.	Cradle to Grave: Mine Remediation and Everything in Between
9:40-10:00	GILBERT, N.	Geotechnical Evaluation of Deformed Corrugated Metal Pipe
10:20-10:40	MCCABE, C.	Engineering Terrain Analysis: Locating a Highway Alignment in Northern Alaska, Part 1
10:40-11:00	MCCABE, C.	Engineering Terrain Analysis: Locating a Highway Alignment in Northern Alaska, Part 2
11:00-11:20	SANTI, P.	Engineering Geology and Sewer Line Settlement: Two Cases from Northern Colorado
11:20-11:40	JORDAN, E.	Preliminary Geotechnical Findings of the MTA-East Side Access Project
11:40-12:00	MATHIESON, E.	Liquefaction and Lateral Spreading in the Epicentral Area of the April 4, 2010, M7.2 El Mayor – Cucapah Earthquake

TECHNICAL SESSION #15: Soil and Rock Mechanics

Room: Calhoun

Moderators: Arpita Nandi

8:00-8:20	WHEELER, C.	Characterization of the Expansive Nature of the Transitional Clay Unit of the Ripley Formation, Northeast Mississippi
8:20-8:40	VANADIT-ELLIS, W.	Modeling Effects and Consequences of Large Explosions on Zoned Embankments
8:40-9:00	MOORE, J.	Evaluating Hydraulic Conductivity from Grain-Size Distribution Analysis and Relevant Soil Properties
9:00-9:20	GAUTAM, T.	Preliminary Results of an Experimental Study for Assessing the Slaking Behavior of Mudrocks Under Atmospheric Conditions
9:20-9:40	LARRAHONDO, J.	Diagenesis of Calcium Carbonate Rich Sediments: Vug Formation in the Southeastern United States
9:40-10:00	HAMEL, J.	Review of Valley Stress Release in Flat-Lying Sedimentary Rocks
10:20-10:40	BLACK, B.	A Multiple Regression Model for Estimating the Compression Index of Select Soils in Southeastern Louisiana
10:40-11:00	NANDI, A.	A Comparative Study on Bearing Capacity Estimation of Spread Footing Using Diverse Empirical Relationships
11:00-11:20	KU, T.	Hierarchy of Shear Wave Velocity Modes in Soils
11:20-11:40	KU, T.	Difficulties in Evaluating Geotechnical Stress State at Savannah River Site, South Carolina
11:40-12:00	MCKENNA, J.	An Experimental Method for Testing Soil Mobility

TECHNICAL SESSION #16: Seismic Hazards

Room: Pinckney

Moderators: Gregory Hempen

8:00-8:20	ATRE, S.	Effect of Shot/Receiver Geometry on the Accuracy and Reliability of the Tomographic Velocity Models
8:20-8:40	MCINTYRE, J.	The Central U.S. Seismic Observatory (CUSO)
8:40-9:00	DESCHAMPS, R.	Liquefaction Remediation with Vibrocompaction and Stone Columns
9:00-9:20	GATH, E.	An Aerial and Ground Reconnaissance of the M7.2 Sierra El Mayor Earthquake of April 4, 2010, Baja California, Mexico
9:20-9:40	STIREWALT, G.	Insights from Review of an Early Site Permit Application for Potential New Nuclear Power Plants by U.S. NRC Geoscientists
9:40-10:00	HEMPEN, G.	The Great New Madrid Earthquake Series – Applying a Conceptual Model

TECHNICAL SESSION #17: Groundwater and Hydrogeology

Room: Pinckney

Moderator: Robert Denton

10:20-10:40	SCHAEFFER, M.	Carolina Piedmont Groundwater System: Is a Transition Zone Present Between Regolith and Bedrock?
10:40-11:00	HAYES, K.	Caving Clays: An Appropriate Annular Seal?
11:00-11:20	SHAW, A.	Grouting and Heat of Hydration in Monitoring Well Installation
11:20-11:40	VULAVA, V.	Chemical Indicators of Groundwater-Stream Water Interactions in a Forested, Lowland Watershed within the U.S. Atlantic Coastal Plain
11:40-12:00	MINNICK, M.	3D Geologic Modeling of the Piceance Basin in Support of Dynamic Systems and Groundwater Modeling for Oil Shale Development

Friday, September 24, 2010 – Afternoon

TECHNICAL SESSION #18: SYMPOSIUM: Landslides and Slope Stability III

Room: Carolina A

Moderators: Jerry Higgins and Paul Santi

2:00-2:20	PIROT, R.	Landslide Hazard Evaluation at Bingen Quarry, Bingen, Washington
2:20-2:40	BOLZ, P.	Geology and Landslides Along the Nenana Canyon, Alaska
2:40-3:00	PICKERING, T.	The Threat of the Dowd's Junction Landslide to I-70, Eagle County, Colorado
3:00-3:20	BRUNKAL, H.	Debris-Flow Dewatering Brakes: Design and Applicability
3:40-4:00	NEAL, K.	Evaluation of Slope Stability Characteristics and Alternative Stabilization Measures, Block 14 Debris Flow Site, Lake Merwin Campers Hideaway, Clark County, Washington

- 4:00-4:20 SHEVLIN, T. Shallow Landslide Barriers – Flexible and Cost-Effective: A Case Study of the World’s First Shallow Landslide Barriers
- 4:20-4:40 POND, S. Failure of Chimborazo Hill - August 30, 2004, Richmond, Virginia
- 4:40-5:00 HAMEL, J. Forensic Investigation of a Backyard Landslide With a Sewer, Bethel Park, Pennsylvania
- 5:00-5:20 MININGER, K. Lifespan of Horizontal Wick Drains Used for Landslide Drainage

TECHNICAL SESSION #19: Coastal and Coastal Plain Issues

Room: Carolina B

Moderator: Christopher Mathewson

- 2:00-2:20 DALAL, V. Characterization of Paleo-Geomorphological Structures - 'Cheniers' in the Mid-Atlantic States (MD and DE)
- 2:20-2:40 ISPHORDING, W. Sulfate-Related Heave and Swell Reaction in Soil Stabilized Coastal Plain Sediments
- 2:40-3:00 WITT, J. Distribution of Trace Elements in a Rim Swamp Environment, Muck Swamp, Congaree National Park, Gadsen, South Carolina
- 3:00-3:20 STIFFLER, E. Hurricane Ike Takes on Geo-Tube Coastal Protection at the Cost of a Complete Village
- 3:40-4:00 KAUFMAN, C. Beach Renourishment and Other Shoreline Stabilization Projects in Charleston Co., SC
- 4:00-4:20 SPIVEY, B. Enhancement of South Carolina HAZUS Landslide and Liquefaction Maps
- 4:20-4:40 WEST, T. Delamination of Reinforced Concrete Structures Due to Saltwater Attack, A Case Study: Fort Myers Beach, Florida
- 4:40-5:00 ADAMS, M. The Impacts of Coastal Erosion on Seabrook and Edisto Islands, South Carolina

TECHNICAL SESSION #20: General Environmental Geology

Room: Calhoun

Moderator: Ryan Turner

- 2:00-2:20 SANCHEZ, M. Recommendations for the Characterization of NIOSH Asbestos Fibers in NOA Materials
- 2:20-2:40 YE, X. Extracellular Hydroquinones Increased Fermentative Hydrogen Production for Remediation and Biofuel Production
- 2:40-3:00 FENSTER, D. Integrated Site Characterization of Greenfield Sites for Nuclear Power Plants
- 3:00-3:20 BRYAN, P. Implementing Greener Cleanups – Current Status and Case Studies Using Greener Clean Up Options
- 3:40-4:00 MILLINGS, M. Vadose Zone Characterization to Support Operation and Performance Assessment of a Low Level Radioactive Waste Facility
- 4:00-4:20 BRADLEY, B. Finding and Documenting North Carolina’s Old Unlined Landfills
- 4:20-4:40 GADINSKI, R. The Rest of the Story, What the Public Should Know
- 4:40-5:00 HODNY, J. Universal Site Characterization Using Advanced Passive Samplers

TECHNICAL SESSION #21: SYMPOSIUM: Role of State Geological Surveys in the Assessment of Geological Hazards

Room: Pinckney

Moderators: Kenneth Taylor and Bill Clendenin

- 2:00-2:20 TAYLOR, K. The Next Geohazard – Joint Local/State/Federal Planning for a Coordinated Scientific Response to a Geologic Disaster, Part 1
- 2:20-2:40 TAYLOR, K. The Next Geohazard – Joint Local/State/Federal Planning for a Coordinated Scientific Response to a Geologic Disaster, Part 2
- 2:40-3:00 CLENDENIN, C. Superimposed Reactivation; Similarities Between Two Large South Carolina Earthquakes, Part 1
- 3:00-3:20 CLENDENIN, C. Superimposed Reactivation; Similarities Between Two Large South Carolina Earthquakes, Part 2
- 3:40-4:00 HOWARD, S. Observations of the 1886 Charleston Earthquake in Central South Carolina, Evidence of Fault Reactivation
- 4:00-4:20 WOOTEN, R. The North Carolina Landslide Program: 3,864 km² Mapped, and 6,042 Landslide Features Later - Findings and Observations
- 4:20-4:40 CATTANACH, B. Integrated Lineament Analyses, Fracture Studies and Detailed Geologic Mapping Near Skyland, Western North Carolina
- 4:40-5:00 TAYLOR, K. Sinkhole Hazard Education Campaign – Onslow County, N.C. Case Study Integrating State and Local Partnerships