The 4th Annual Technical Forum, an activity of the Appalachian States Coalition for Geohazards in Transportation, is sponsored by Nick J. Rahall, II, the Appalachian Transportation Institute (RTI), and the Ohio Department of Transportation.

RTI, a U.S. Department of Transportation University Transportation Center, was established at Marshall University by the U.S. Congress in the Transportation Equity Act for the 21st Century on June 8, 1998. The grant includes four partner schools in southern West Virginia.

The Appalachian States Coalition is comprised of representatives from the principal federal, state, and private transportation entities.
The Appalachian states are tied by common geographical and geological challenges.

Multi-Modal transportation in the Appalachian Region is essential for economic development. The coalition includes members from Kentucky, Ohio, West Virginia, Pennsylvania, and Virginia U.S. Geological Survey, U.S. Army Corps of Engineers, CSX and Norfolk Southern Companies.

This grassroots organization’s objectives, as they develop, include sharing of resources and information, exchange of methodologies and experiences, and collaboration on geologic projects and research activities.

It is an exciting prospect to work with federal, state, and private entities faced with prevention, correction or remediation of similar geologic problems in the Appalachian region.

Exhibitor Information

Exhibiting is an excellent opportunity for your organization to display its recent achievements and network with transportation professionals. It also provides an unprecedented source of advertisement. Many companies have capitalized on this opportunity and fault this conference for increasing their business.

The exhibitor registration fee is $200. This fee includes:

- (2) Full Registrations
- (1) 2’x8’ skirted table display
- (1) Lunch
- (2) Continental Breakfasts
# 2004 Agenda

## Opening Session
**10:30 a.m.**

**Chair:** Kirk Beach

1. Synthesis Study of State DOTs and the UK Geotechnical Data Systems.  
   *Robert Bachus, GeoSyntec, Atlanta GA*
2. Overview of Geological Hazards that may Impact Ohio’s Transportation Network  
   *Thomas Berg, State Geologist, Ohio Geological Survey*

### Lunch Buffet
**11:30 - 1:00 p.m.**

## Session 2: GeoHazards Investigations
**1:00 p.m.**

**Chair:** John Keifer

   *Richard Williams, BBC & M Engineering*
2. Integrated Geotechnical Data Management for Working Engineers and Geologists  
   *Scott Weaver of Earthsoft, East Paradise, UT*
3. Arresting Subsidence Using Low Cost Pozzolan Materials  
   *Paul Petzircik, DNR, MD; Terry Ackman, NETL, Pittsburgh*

### Break
**2:30 p.m.**

## Session 3: GIS Applications in Geotechnical Issues
**3:00 p.m.**

**Chair:** Steve Brewster

1. Development of Abandoned Underground Mines GIS Application  
   *Charles Banks et al, Ohio Geological Survey*
2. GIS Application for Landslide  
   *Ghulan Bham & Krishna Murthy, West Virginia University Institute of Technology, Montgomery, WV*
3. GIS/GPS Applications for a Geotech Corridor Study  
   *Ed Bennet & Kirk Beach, ODOT*
4. Grid Analysis of Landslide Hazards Impacting Transportation Systems  
   *Sean Davies, Intergraph Corporation, Matt West, Keigan Systems*

### Break / Hotel Checkout
**10:00 a.m.**

## Session 4a: Ground Stabilization Issues
**8:00 a.m.**

**Chair:** James Fisher

1. Embankment and MSE Wall Design and Construction using Lightweight Backfill  
   *James Fisher, West Virginia DOT*
2. Mine Shaft Grouting Using CCPs to Reduce Ground Water Infiltration  
   *Gary Fuhrman, Western Maryland Resource Conservation and Development Council*
3. Use of Expanded Polysyrene (EPS) in Slope Stabilization  
   *Marvin Cook, Cedar City, UT*

## Session 4b: GIS Analytical Tools and Karst
**8:00 a.m.**

**Chair:** Steve Brewster

1. Internet GIS Tool for Site Analysis in Kentucky  
   *Dan Carey, Kentucky Geological Survey*
2. A Geospatial Analysis for an Environmental Restoration Feasibility Study of the Monday Creek Watershed  
   *John Ferguson, USACE, Huntington, WV*
3. Karst Inventory and Vulnerability Assessment for I-66, Somerset to London  
   *Mitchell Weber, Gannet Fleming Engineers and Architects*

### Break / Hotel Checkout
**10:00 a.m.**

## Session 5: Landslides and Rockfalls
**10:30 a.m.**

**Chair:** Tony Szwilski

1. Determining the Validity and Effectiveness of Landslide Susceptibility Maps  
   *Richard Pohana, City of Cincinnati, OH*
2. Rockfall Control Measures in ODOT District 11  
   *James Graham, Ohio DOT*
3. Landslide Investigation on SR 7 Along Ohio River  
   *Peter Narsavage & Paul de Verteuil, DLZ Columbus, OH*
4. Exploring Construction on Sites Underlain by Colluvial Deposits in the Eastern Kentucky Coal Fields  
   *Hugo Aparicio, Fuller, Mossbarger, Scott and May Engineers*

### Adjourn
**12:30 p.m.**
Registration Information

Please pre-register by Friday, July 30, 2004.

Cost:
- $50 - Professionals
- $0 - Students
- $75 - On-site

Attendee Type:  □ Professional ($50)  □ On-Site ($75)  □ Full-Time Student (Free)

Deadline: Friday, July 30, 2004

Questions? Please contact:
Debbie Sparkes
Tel. 614.466.2846
Fax 614.275.1354
Email Debbie.Sparkes@dot.state.oh.us
Mail 1600 West Broad Street
Columbus, OH 43223

Payment Information

☐ Check or Money Order made payable to RTI is enclosed.
☐ Please invoice me

☐ VISA  ☐ MASTERCARD  Number: __________________________  Expiration _____/_____

Cardholder’s Signature _____________________________________________________________

Credit Card Billing Address __________________________________________________________

☐ Check here if billing address is the same as above.

Detach and mail to: ODOT, Attn: Debbie Sparkes, 1600 W. Broad St., Columbus OH, 43223