

## SESSION 2

# ROCKFALL AND HIGHWAY SLOPE MANAGEMENT

# Slope Management?



Rock Slope Hazard? How Dangerous?

Scope of Rock Slope Hazard?

Design/Remedial/Mitigation Measures?

Slope Geology?

Slope Geometry/Orientation and Strengths of Rock Units?

Analysis and Design?

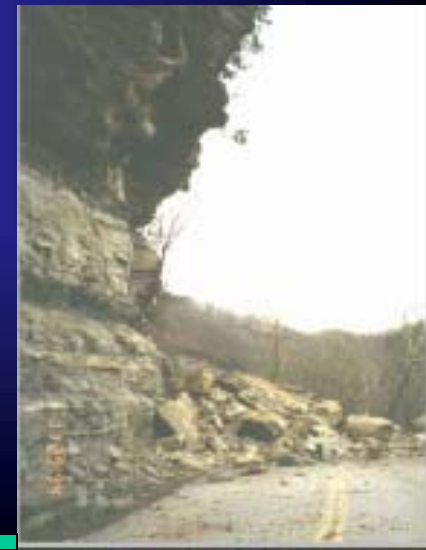
Database of Information

# Development of a Rockfall and Hazard Rating Matrix for the State of Ohio

Martin J. Woodard---Radford University

Abdul Shakoor---Kent State University

Rachel Craig---National Science Foundation



# Rock-Cut Design and Construction of the Auxiliary Spillway with Road Relocation at Dewey Lake, KY

Michael Nield

*U. S. Army Corps of Engineers*



# 3D Scanner Providing Rich Superficial data of Highway Slope

Jobes Henderson & Associates



# Slope Management/Scope in Kentucky?

Examined about 10,000 rock slopes

Preliminary rating--- A, B, C

Numerical Rating--2100 Rock Slopes

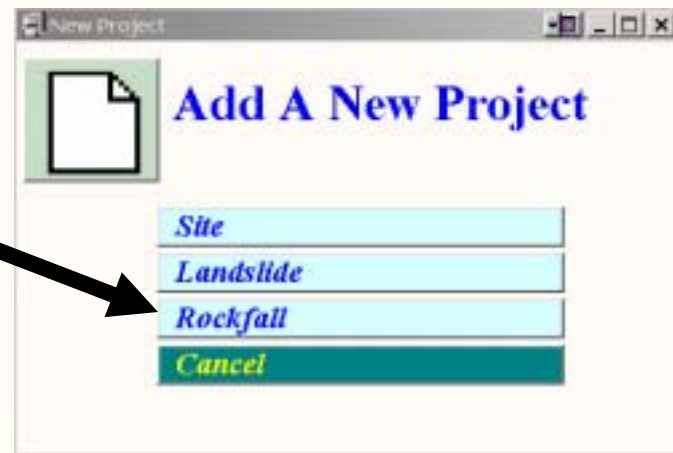


Oregon/FHWA Rockfall Hazardous  
Rating System



# Geotechnical Database

-  **Add A New Project**
-  **Search Existing Data**
-  **Get Reports**
-  **Engineering Application**
-  **Email Service**
-  **Exit This Database**



# Slope Management?

Money!



# QUESTIONS

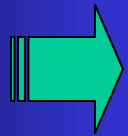
Identify hazardous rock slope sites in Appalachian Region?

Identify landslides sites in Appalachian Region?

Identify other Geohazards in Appalachian?

Geohazard database for Appalachian  
Region? National database?

# Transportation Geohazards



A method of identifying the potential hazard of a rock slope



Rock cut design-case study



A method of obtaining the geometry of a rock slope