

Surface Geophysical Methods for Detection of Underground Mine Workings

Presenters: Bill Johnson/Bob Snow
Firm/Organization: D'Appolonia Engineering Div. of Ground Technology, Inc.
Phone: 412-856-9440
Fax: 412-856-9535
Email: resnow@dappolonia.com
Mailing Address: D'Appolonia Engineering Division of Ground Technology
Attn: Robert E. Snow, PE
275 Center Road
Monroeville, PA 15146

ABSTRACT

The presentation is titled "Surface Geophysical Methods for Detection of Underground Mine Workings". It will cover the traditional surface geophysical methods including microgravity, seismic, DC resistivity, Electromagnetic (EM) methods, Ground Penetrating Radar (GPR), and magnetics. Case histories will be presented to demonstrate results of the more useful methods. A similar presentation was made at the Association of State Dam Safety Officials, Tailings 2002 Conference. The authors expect to present a few case histories on seismic methods that were not included in their Tailings 2002 paper.