



InSAR Webinar

January 24, 2017

10:00 -11:30 AM Eastern Time

GENERAL

ITGAUM, with the assistance of FHWA is hosting a webinar on the use of InSAR for locating and monitoring subsidence.

What is InSAR?

(From the USGS website)

InSAR (Interferometric Synthetic Aperture Radar) is a technique for mapping ground deformation using radar images of the Earth's surface that are collected from orbiting satellites. Unlike visible or infrared light, radar waves penetrate most weather clouds and are equally effective in darkness. So with InSAR it is possible to track ground deformation even in bad weather and at night.

The cost of InSAR has fallen considerably in recent years while the availability and accuracy has increased. Now would be a good time to take a look to determine if this tool could be considered at appropriate locations.

ABSTRACT

Dr. Brian Bruckno, Engineering Geologist with Virginia Department of Transportation, will provide an overview of the applications of InSAR (Interferometric Synthetic Aperture Radar). He will provide an overview of the theory of interferometric radar, discuss recent successful applications of the technology related to sinkholes, mine-related subsidence, and geotechnical engineering, and discuss data sources, procurement and processing. He will also demonstrate analyzing and interpreting the data in a GIS environment and exporting the data into open-source platforms, such as Google Earth.

WHO SHOULD PARTICIPATE

This tool could be used for subsidence hazards such as mines, karst, or other subsidence hazards. This is a technical presentation for those dealing with subsidence.

COST

This is a free webinar.

HOW TO PARTICIPATE

Details to connect with the webinar will be forwarded later and will also be posted on the ITGAUM website at: <http://www.fhwa.dot.gov/engineering/geotech/hazards/mine/>

QUESTIONS

If you have any questions please contact:

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