

## Mining—Geosciences

### Description:

During this session, review best practices methods, standards, and managing databases in the geosciences field.

### Papers:

***Using ArcGIS Server and the Data Interoperability Extension to Integrate***

**Gregory Morlock**, US Office of Surface Mining

The US Office of Surface Mining (OSM) regulates surface coal mines throughout the United States. Much of this regulation is performed by states in cooperative arrangements with OSM. Because OSM and these state agencies do their work in different ways, there is not a central repository for coalmine permit boundaries for the United States. OSM, in conjunction with the states of Virginia and West Virginia, conducted a prototype project to collect coalmine permit boundary information. The concept of the prototype was to create one-way replicas of the state geodatabases in an OSM geodatabase. The Data Interoperability Extension was then used to perform an extract, transform and Load (ETL) operation on those data as well as internal data from different OSM locations.