

## Personal Bio

### Vital Stats

Full Name: Samrat Mohanty, PhD, PE

Affiliation: Agapito Associates, Inc.

Position: Associate (Geotechnical & Mining)



### Biography

Dr. Mohanty has over 15 years of professional and academic research experience that spans over mining (surface and underground) rock mechanics, and civil geotechnics. He has been providing consulting services on domestic and international projects in multiple sectors including coal mining, metal mining, salt/potash mining, storage caverns, and tunnels. Dr. Mohanty's primary expertise has been stability analysis using numerical modeling tools of underground mine structures, surface mine slopes, high walls, spoil piles, tailings facilities, tunnels and cavern pillars. He also has experience in evaluating slope stability of levees, rock fill and earth dams under static, seepage, and seismic conditions. Dr. Mohanty has also evaluated acid mine drainage from tailing disposal and utilization of coal combustion byproducts. Dr. Mohanty is a Registered Professional Engineer in the State of Colorado.

### Education

Phd, Engineering Science, Southern Illinois University Carbondale

MS, Mining and Civil Engineering, Southern Illinois University Carbondale

BS, Mining Engineering, Indian School of Mines

### Awards and Major Publications

- "Fiber Reinforced Polymer Rockbolts for Ground Control in a Strong Jointed Rock Mass." 33rd Intl Conference on Ground Control in Mining, Morgantown, WV, July 2014.
- "Impact of Operational Pressure Cycles on the Long-Term Stability of Underground Storage Caverns." *48th US Rock Mechanics / Geomechanics Symposium*, Minneapolis, MN, June 2014.
- "Long Term Stability Evaluation of an Old Underground Gas Storage Cavern Using Unique Numerical Methods." *Tunnelling and Underground Space Technology*, vol. 30, July 2012.