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Jozef Szymanski

- Research areas

Computer simulation and animation technology for sustainable surface mining operations

- Research is focus on developing intelligent algorithms using artificial neural networks and operations research to provide solutions to surface mine design problems with shorter cpu times and learning curves.

Underground Mine Production Simulators

- Development of the underground ore production simulators using network/discreet event continuous simulation modeling concepts.

Modified Creeping Cone Technology

- An innovative underground mining method developed to solve ground control problems a Selebi-Phikwie mine, Bcl ltd. In Botswana geomechnical mine design methods.

Post Blast Stability Of Stope Walls Blocks

- The dislocation model of mode II fracture initiation and propagation in rock blocks udder cyclic loading and unloading has been developed.

Hydraulic Hand - Held Scaling Bar

- This research project has led to development o a new hydraulically powered hand held scaler for dislodging and removing loose rock.

Novel Integrating Process For Treating Fine Coal Tailings

- This research project is aimed at improving both, existing fine coal cleaning and water clarification systems and making them more economical and at the same time removing most of the fine coal particles form recycled water.

Depression Of Bitumen From Oil Sands By Clays And Ionic Species During Extraction With The Hot Water Flotation Process

- Approach - doping samples of real oil sands ore with calcium or magnesium ions, and with fine clays to study their effects on the bitumen recovery.

At Face Slurrying (Afs) Technology

- At face slurrying technology will create and transport oil sands slurry from production faces through flexible pipeline system to link the existing hydrotransport system.

Smart Loading Of Oilsands

- Developing a navigation system that will direct the shovel excavation in the oilsands formation by employing stress wave propagation and intelligent modeling concepts.

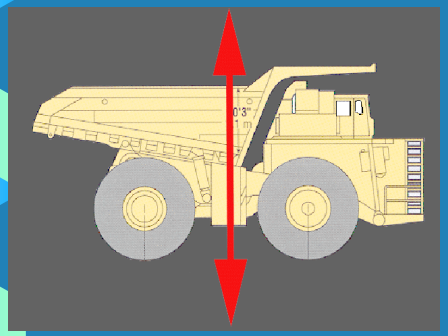
Online Slurry Air-content Determination and Analysis

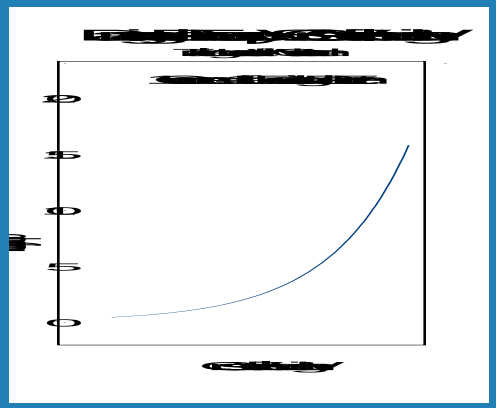
- The project is focussed on developing an air-content determination, analysis and control method for oil sands development.

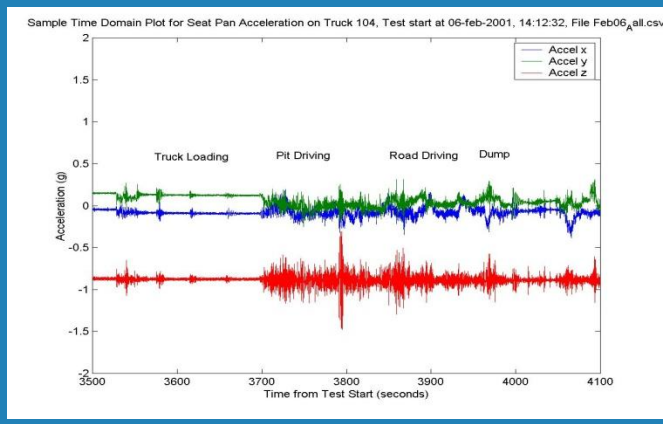
- In this phase the experimental determination of the resonance frequency of the multiphase pipe loop and relate it to its air content was investigated.

Oil Sand / Equipment Interaction

- The research project links tire underfoot conditions and Cat's 797 truck performance data with with the actual haul road conditions.







High speed planetary torque multiplier

- Torque range 50 - 10,000 ft-lbs
- Light weight
- No impact
- World's most powerful torque wrench
- Speed range

Patent pending

Civil & Environmental Engineering Related Journals

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- International Summit on Industrial Engineering

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