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## Commitment to improve operational availability (Ao)

As the MSR products are being applied to safeguard mine personnel it has become crucial to our clients that the MSR is operationally available for the maximum possible time. Reutech Mining has identified operational availability as an essential and crucial component in the MSR offering to our clients.

The definition of Ao is the time that the user has live useable data available to make safety decisions. Reutech Mining has committed itself to constantly improve the Ao of all systems.

The following statistics prove that our continuous improvement programme is achieving great successes:

- ▶ Global average Ao on all systems measured over the last 15 months were 97.4%
- ▶ Global average Ao on all systems measured over the last 9 months were 98.2%
- ▶ Global average Ao on all systems measured over the last 6 months were 98.6%
- ▶ Global average Ao on all systems measured over the last 3 months were 99%

This was achieved WITHOUT the requirement to have a full time technician on any of the MSR mines. We are therefore not only improving the availability of our equipment but also provide a significant support cost saving to our clients.

Reutech Mining and our support partners remains committed to further improve on Ao and have identified further actions to continue to shift the benchmark in the industry.

## Welcome to the following users...

In the last three months, a number of mines have selected the superior MSR technology to safeguard their mining operations. We welcome the following mines to our family of satisfied users:

- 📍 Grange Resources Savage River operation in Australia: 1x MSR 300
- 📍 Anglo's Los Bronses operation in Chile: 1 x MSR 200
- 📍 Kinross's Maricunga operation in Chile: 1 x MSR 300
- 📍 Newcrest's Cadia operation in Australia: 1 x MSR 300
- 📍 Newcrest's Telfer operation in Australia extended their fleet to 2x MSR 300
- 📍 Asarel Medet in Bulgaria: 1 x MSR 300



Reutech Mining celebrating South Africa's hosting of the Soccer World Cup 2010.



...South Africa - Soccer World Cup 2010 Host...

## Global Mining Technology Conference 2010 in Istanbul

Reutech Mining exhibited and presented a paper at the Global Mining Technology Conference 2010 that was held in Istanbul from 11 to 13 May 2010.

The title of the paper was "Effective monitoring of geotechnical risks in open pit mines". Specific case studies were presented where the Movement and Surveying Radar contributed to more effective and safe mining practises through effective monitoring of the mine slope to detect any surface movement. Case studies included examples from the application in coal, copper and gold mining operations.

The aim of the conference was to expose the growing Turkish mining industry as well as that of the surrounding regions to the technology available in the industry. The conference was well attended and it was an excellent opportunity to build a network in the new region.

Lengthy discussions on the future of modern mines created some challenges for both mining companies and suppliers.

## Reutech Mining exhibits in Zambia...

The 53rd Copperbelt Mining Agriculture and Commercial Show was held in Kitwe, Zambia from the 26 - 30 May 2010.

There is currently significant growth in mining in this country as the price of copper has risen to pre-recession levels again. Projects that have been shelved are being revived, mining operations are restarting and new mines are opening up in this copper rich area.

The theme of the show was "2010 A New Decade - Renewed Hope". Reutech Mining joined 13 other South African companies in a hall dedicated to the South African Department of Trade and Industry.

## IMME 2010 in Kolkata, India

Reutech Mining exhibited at the International Mining, Exploration, Mineral Processing and Technology Exhibition at the Nataji Stadium in Kolkata, India, during January 2010.

The benefits of using radar technology to enhance both safety and productivity by monitoring of slopes were introduced to the open pit mining fraternity in India.



*Pictured above from left are Partha Bhattacharyya (Chairman Coal India), Sriprakash Jaiswal (Minister of State), Peter Bradshaw and Rajesh Jindal of Elcometech.*

With the 2010 Soccer World Cup around the corner, the atmosphere was very festive and the SA Hall had an array of very high profile visitors across the board.

There was significant interest in the MSR's as well as some of Reutech's other products.



*Picture (top) Cala van der Westhuizen and the Honourable Peter Daka, MP, Minister of Agriculture and Cooperatives from Zambia.*

*...Safety and productivity through accuracy and reliability...*

## Slope stability management and mine safety in open pit mining

At the recent Slope Stability conference in Santiago Chile, significant advancements were highlighted. Topics included the numerous methods of reducing the risks associated with slope failures.

Key focus areas discussed included safe geotechnical designing, rock fall catchment systems and monitoring devices for advanced warning of imminent failures. Reutech Mining was prominently featured with their MSR 300 movement and surveying radar system. According to Garth Day (MSR Business Manager: South America) "The MSR system has since its launch in 2006 changed the approach of geotechnical professionals in their management of slope stability issues".

An increasing number of leading mines are adopting the MSR technology to ensure a safer mining environment. Currently MSR systems are operating in 11 countries on 4 continents.

In many situations, pit designs and production schedules become highly sensitive to minute changes in economic variables and operating parameters. The real difference lies in optimal output of the data so as to identify and minimise risks associated with these factors. Design of open pit slope angles is becoming increasingly significant as the mining depths of open pits continuously increase. Small changes in the overall pit slope angle have large consequences on the overall economy of the mining operation.

The MSR 300 system with its long range (2500m) is being adopted on an increasing basis by South American mines. This is largely due to the unique MSR Series' features that make it unique in the global market today. These features include its proven reliability which is unequalled, operation in extreme weather conditions, georeferencing, integration with the mine's Digital Terrain Model, autonomous operation and continuous improvement.

When it comes to operational availability the track record of the MSR speaks for itself with an average global availability of 97.4% on all systems without the presence of a resident technician on any of the mines.

The MSR is also the only radar system in the world that can detect a 15m bench failure at its full operating range.

"It is with these ongoing challenges faced by the global mining industry today that Reutech Mining is providing the leading edge technology and real time solutions required.

We have been able to streamline our support and maintenance of the MSR at Tulawaka and now at North Mara, by ensuring that parts are readily available and by training staff to do basic maintenance of the system. Once the MSR has been delivered to a mine, we strive to provide our clients with superb service, irrespective of the remoteness of their location. We will continue to implement this support and maintenance model as our client base in Africa grows," says Cala van der Westhuizen, Marketing Manager of Reutech Mining.



### *Upcoming events...*

-  *31 August - 2 Sept. 2010 - Argentina Mining 2010, San Juan, Argentina.*
-  *8 - 10 September 2010 - Expomina 2010, Lima, Peru.*
-  *20 - 24 September 2010 - International Society for Mine Surveying, Sun City, South Africa.*
-  *4 - 8 October 2010 - Electra Mining 2010, Nasrec, Johannesburg, South Africa.*
-  *10 - 13 November 2010 - MME 2010, Salt Lake, Kolkata, India*

## Chilean delegation attends MSR User conference in Cape Town, South Africa



Above: A group of the Chilean delegation at an MSR in Reutech's Integration area.

Reutech Mining recently hosted the 2010 MSR user conference for their South American clients at the Reutech Mining Head Office in Stellenbosch South Africa. The conference was well attended and also included a factory visit. Future strategies and user requirements were discussed to ensure that the MSR system remains the first choice to effectively manage the clients geotechnical risks.



Marco Pachero (Clonsa Engineering) on Reutech Mining's roof with a view of the surrounding mountains.



Designing the future.....

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