

GroundProbe[®]

GROUND BREAKING

DECEMBER 2013 NEWS

MAKING
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200TH RADAR DEPLOYED

Kolomela Mine in South Africa (Kumba Iron Ore and part of the Anglo American group) received SSR200XT, the 200th Slope Stability Radar system produced by GroundProbe for the open-pit mining industry. This represents a major milestone for GroundProbe, and we were delighted to be able to celebrate reaching this milestone with our colleagues and friends at Kumba Iron Ore.

We are proud to report that the radar was built in our Brisbane manufacturing facility in just two weeks. After being transported by air to South Africa and tested in Johannesburg, our team of technicians installed the radar in the Kolomela mine while our Brisbane and Johannesburg offices celebrated the good news.

Marnus Bester, the Principal Geotechnical Engineer at Kolomeal Mine stated 'At Kolomela Mine we pride ourselves in putting safety first in everything we do, thus the slope stability radars are an integral part of managing slope instability and its associated safety risk to personnel and equipment'.

Slope stability radars have enabled geotechnical engineers and mine managers to safely manage more than 500 wall failures occurring in mines around the world. This has resulted directly in well over 20 lives being saved, and indirectly in hundreds-of-millions of net present value dollars from increased productivity through improved risk management and design.

The rapid growth reflects our commitment to excellence and our ongoing efforts to improve our products, enhance and expand our services, and support our customers to the very best of our availability. It is also a reflection of the invaluable professional relationship we have built with the Anglo American Group, and we look forward to working together over the coming months and years, both in South Africa and beyond.



CEO UPDATE

This quarter has been extremely busy – and highly successful – for the GroundProbe team. In September, we celebrated a major milestone when we deployed our 200th radar to the Kolomela Mine in South Africa, and we look forward to celebrating many more successes as we continue to build our relationship with Kumba Iron Ore. We were also fortunate to welcome our international and local customers to Brisbane for the International Symposium on Slope Stability in Open Pit Mining. This event provided us with an invaluable opportunity to meet and talk with all those in attendance, and to gain important insights into our customers' unique circumstances, their needs, and their plans for the future. Our Casino Royale event provided the ideal backdrop for many more of these important conversations, and I thank everyone for making the evening so enjoyable.

John Bevers



REMOTE GEOTECHNICAL REPORTING - IMPROVING SAFETY AND INCREASING PRODUCTION

Debswana has several diamond mining operations in Botswana, and it has achieved significant improvements in on-site safety and production by engaging GroundProbe's Geotechnical Support Services team to perform remote geotechnical hazard detection and data analysis from the other side of the world.

Each time a radar is deployed at a Debswana site, the resulting data is uploaded to a secure server in Australia. GroundProbe's Brisbane-based team of trained Geotechnical Engineers analyse this data, and a geotechnical hazard report, key findings, and a summary spreadsheet of the data quality parameters are returned via email to the team at the mine. In addition, the team receives wall folder reports (created following the completion of a deployment), monthly reports, and quarterly reports.

As Albert Cabrejo – GroundProbe's Principal Geotechnical Engineer – has noted, *"these reports ensure the Debswana mines are always in possession of the most reliable and up-to-date information about the mine sites and the radars that monitor these sites."*

The GroundProbe team also evaluates the data to monitor the radar's performance, suggest ways to improve data quality, and identify and resolve any problems. In addition, regular communication with the teams working at the Debswana sites allows GroundProbe to stay abreast of any slope instability developments.

Merapelo Wiseman Nkwe, Debswana's Geotechnical Engineer, reports that the work carried out by GroundProbe has had a considerable impact on the company. *"The services provided by GroundProbe have significantly improved productivity and profitability at the Debswana project,"* Mr. Nkwe explained, *"because we have been able to identify opportunities to improve our efficiency."*

"Not only has safety improved exponentially," Mr. Nkwe added, *"but our mining engineers are now asking the geotechnical engineers for support and advice at the company's monthly meetings if modifications need to be made to the current mine plan."*

Based on his experience, Mr. Nkwe recommends GroundProbe – and the services it provides – to other mining operations. *"Working with GroundProbe,"* he concludes, *"has changed my company's approach to mining."*



SENIOR TECHNICAL SPECIALIST, SOUTH AFRICA – MR GRANT FORTUIN

In 2008, Grant Fortuin joined GroundProbe's South Africa team as a Technical Specialist, based in our Johannesburg office. By 2011, he had been promoted to the position of Senior Technical Officer and he is currently the Technical Manager of GroundProbe South Africa (GPSA). GroundProbe is fortunate to work with an array of clients in countries across the African continent, including South Africa, Botswana, the Democratic Republic of the Congo, and Zambia. As Technical Manager, Grant is responsible for ensuring that the GPSA team and its fleet of radars continue to provide our clients with the high quality data and technical support services they have come to rely on.

For Grant, the opportunity to provide remote support to clients and technical specialists is one of the most enjoyable aspects of his role.

"It helps me to stay up-to-date with the technical aspects of our products and our work, which makes the role both challenging and exciting. The mission and values of GroundProbe are inspiring and I'm delighted every time I receive customer feedback. And, of course, when one of our radars detects a wall failure, it's extremely satisfying and rewarding."

The opportunity to be based in Africa is also something that Grant particularly values. *"I really enjoy working in Africa, not only because of the family and friends I have here, but also because it has given me the opportunity to work with different cultures all across the continent. GroundProbe's presence in Africa continues to grow and we continue to build valuable new partnerships here, and as a result there are lots of exciting challenges and opportunities for the GPSA team that I'm very much looking forward to."*

CLIENT FEEDBACK



At GroundProbe, we pride ourselves not only on the radars that we supply to mines around the world, but also on the range of services and the ongoing support that accompanies our technical equipment, and the lasting relationships we build with our customers. As a result, we always look forward to hearing from our customers about our products, our services, and our teams, and we are delighted to report that we have received some wonderful feedback in recent months.

Feedback from a geotechnical engineer one of our Chilean Mines, for example, highlighted the efforts of Sergio Olivero—a GroundProbe radar operator—who detected two hazardous events that culminated in dangerous rock falls. In a complex and challenging geological environment, Sergio's skill, diligence, and quick thinking meant that the site was able to take the necessary steps to avoid an accident. The geotechnical engineer at the Chilean mine described these detections as a significant success that further enhanced the credibility of the geotechnical team in Chile.

We also received encouraging feedback on the training we deliver to those who will be using our equipment. George Kayesa, manager of the Debswana-Orapa and Letlhakane Mines, reported that GroundProbe employee Prabakaran Paramasivam conducted the training *"in such a professionally interactive environment that even the new employees were able to effectively absorb the training material,"* and that *"the confidence of the team in the use of the SSR has noticeably improved after the training."*

While we are thrilled to hear about successes such as these, we are always looking for new and better ways to support our customers as they deploy our products. As part of this effort, we are expanding the range of services that we provide to offer more regular User Group Forums, which are designed to further assist our customers and ensure that they enjoy all the benefits our products offer. These forums will include demonstrations, open discussions, technical updates, information on data quality parameters, and case studies. Although these forums are free, those who are interested in attending will require an invitation. For an invitation and further information on the next User Group Forum in your area, please contact info@groundprobe.com.

We welcome your feedback about these forums, and we look forward to continued opportunities to further enhance the products, supports, and technical services that we offer.

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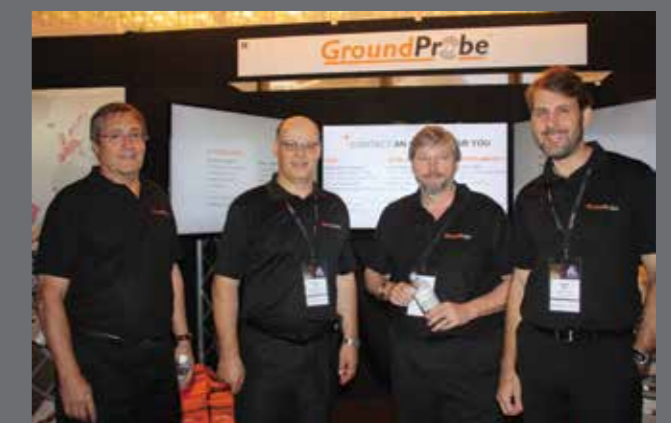


SLOPE STABILITY SYMPOSIUM SUCCESS

In September, we were delighted to welcome our customers and our industry friends to our home town of Brisbane for the International Symposium on Slope Stability in Open Pit Mining. Our exhibition booth at the symposium provided us with a fantastic opportunity to talk with many of those in attendance, and to engage in meaningful conversations about the industry we work in, and about the specific needs of our customers. The global nature of our professional community means that such opportunities can be few and far between, and we were thrilled to be able to meet and reconnect, face to face, with customers and colleagues from all over the world.

We were also delighted to have the opportunity to present at the symposium itself. Our senior geotechnical engineer, Albert Cabrejo, delivered a presentation titled *Analysis of Failures in Open Pit Mines and Consideration of the Uncertainty When Predicting Collapses*, and we are proud to note that the feedback we received about this presentation was overwhelmingly positive. If you would like a copy of the presentation, please contact our office on info@groundprobe.com.

To celebrate the success of the symposium, we hosted our signature Casino Royal event at the Treasury Casino, with signature cocktails and a surprise guest. We would like to congratulate all the successful bidders at the auction, and to thank all those who joined us for making the event such a success. We are overjoyed that everyone had such a memorable evening, and we look forward to hosting you all again in Brisbane very soon.



OBSOLETE PARTS REENGINEERED TO SUPPORT AGING SSR SERIES-1

The SSR Series-1 fleet have been the focus of our engineering efforts in recent months as our teams continue to work hard reengineering old and obsolete components to continue the support of the aging fleet.

The team has recently redesigned a number of key obsolete parts at great effort to push our SSR Series-1 radars into their 11th year of operational life.

Product Manager, Craig Humphrey, explained we are proud of our legacy and commitment to support the fleet of SSR Series-1 radars, that have performed well beyond the industry standard for mechatronics equipment.

“Dedicating such significant time, effort and resources to work on the SSR Series-1 obsolete parts shows the level of commitment this company has to supporting customers. That is something we should all be proud of.”

LATEST DEPLOYMENTS

+ Kumba Iron Ore

Sishen, South Africa
Kolomela, South Africa

+ DCP

Katanga Mine, The Democratic Republic of the Congo

+ Vale

Carajas, Brazil
Mine Closure Group, Brazil

+ ArcelorMittal

Mont Wright, Canada

+ Thiess

Burton, Australia

+ KGHM International

Sierra Gorda, Chile

+ Anglo American

Callide, Australia
Drayton, Australia



+ MAKING MINING SAFER

FROM THE PRODUCTS WE DEVELOP TO THE SLOPE MONITORING SOLUTIONS WE TAILOR, OUR VISION IS MAKING MINING SAFER

AN OFFICE NEAR YOU

AUSTRALASIA

Brisbane, Australia
Head office and production
72 Newmarket Road
Windsor, Qld 4030
Australia

Tel +61 7 3010 8999
info@groundprobe.com

Perth, Australia
11 Agett Road
Malaga, WA 6090
Australia

Tel +61 8 9378 8000
info@groundprobe.com

ASIA

Balikpapan, Indonesia
Geotechnical Support Center
Jl. Kol. Syarifuddin Yoes RT.094
Kel. Gunung Bahagia
Balikpapan, Kalimantan Timur 76115
Indonesia

Tel +62 542 758 1403
info@groundprobe.com

AFRICA & EUROPE

Johannesburg, South Africa
Unit 1, 9 Reedbuck Crescent
Corporate Park South
Midrand, 1685
South Africa

Tel +27 11 087 5300
infoSA@groundprobe.com

NORTH AMERICA

Tucson, USA
1230 E. Pennsylvania Street
Suite 102
Tucson, AZ 85714
USA

Tel +1 520 393 8287
infoNA@groundprobe.com

SOUTH AMERICA

Belo Horizonte, Brazil
R. Des. Leão Starling 200-A
Belo Horizonte, MG 31.310-370
Brasil

Tel +55 31 3347 5904
infoBR@groundprobe.com

Santiago, Chile
Av. Américo Vespucchi 2758-B
Conchalí, Santiago
Chile 8560127

Tel +56 2 586 4200
infoCL@groundprobe.com

DISTRIBUTION PARTNERS

CHINA

Beijing STS Instrument Co., Ltd
Room 502, Tower A, GEM Tech-
Center,
#9 Shangdi 3rd Street,
Haidian District
Beijing
P. R. China, 100085

Tel +86 10 8278 1189
www.ststek.com

INDIA

Sujyoti India (P.) Ltd.
“NEXUS POINT”
IIInd Floor, Vidhan Bhavan Square
Civil Lines
Nagpur 440001

+91 712 6653333

PERU

Geoblast Perú:
Calle Las Codornices 104 - 112
Altura cuadra 7 de Av. Aramburú
Lima 34 - Perú

COLOMBIA

Geoblast Colombia:
Dirección es Calle 53 A # 79A04,
Barrio Los Colores, Medellín.