

# Mining Magazine



## Plant design

New products, projects and technologies in automated process control

## Mass mining

Grasberg's plans to move underground and maintain 240,000t/d

## Trucks

Rigid-frame vs ADTs, the latest developments from top producers

## Locomotives

Natural gas, its impacts on mine haulage and the US coal market



**BREAKER  
TECHNOLOGY**



# Bauma 2013: think big

I am writing this from the lounge at Munich airport, Germany, on my way back from Bauma 2013, one of the world's largest trade fairs; and what a spectacle it was.

With over 500,000m<sup>2</sup> of exhibition space, more than 3,000 exhibitors and 530,000 visitors, there was no doubt that in this, its 30th year, Bauma was more impressive than ever. But what did a show that mainly targets the global construction market hold in store for the mining industry?

Held once every three years, Bauma has traditionally always had a mining presence and now this appears to be growing. There is an area of crossover between the two industries where large machines originally designed for the construction sector, such as articulated dump trucks, have found their way into mining. Likewise, some of the smaller excavators and rigid frame trucks aimed at the mining market are used in construction.

In addition, items such as cranes and dozers are used by both industries, so it is easy to see why many OEMs dabble in both areas. Caterpillar, Komatsu, Liebherr and Hitachi, for instance, all had expansive stands, as did Volvo, Terex Construction, Sandvik and Atlas Copco.

Add to this companies which supply parts and components, processing equipment, and consumables for both markets, and what appears on the surface to be an event which is only vaguely relevant for readers of this title, becomes a veritable gold mine for finding new contacts and suppliers.

Although, this year, there was not a huge amount in the way of new machines and concepts launched specifically for the mining industry; many companies took the chance to exhibit items and demonstrate services that were launched last year at the MINExpo event in Las Vegas, US – the mining industry's largest dedicated trade fair. Thanks to the laid-back atmosphere (every stand had a beer bar), and less frenetic schedule, it was much easier to look over and discuss the machines at Bauma.

In addition, some of the models that were on display are now en route to customers in the Europe, Middle East, Africa (EMEA) region. Wirtgen, for example, showed a surface miner that is destined for a mining operation in Morocco, and it was good to be able to discuss machine applications in more depth.

For me, Bauma presented an opportunity to meet readers and contributors from Europe with whom I have been corresponding for years, but have yet had a chance to meet face to face. As the old adage goes, it's not what you know, it's whom you know, and after all, isn't that why we have trade fairs? In an age where relationships are increasingly built upon virtual networking – e-mail and telephone calls – exhibitions present a valuable opportunity to cement existing relationships and to build meaningful new ones in person.

So I say 'long live the trade show'; they are one of my favourite ways to meet new people and perhaps they should be one of yours too. For a round-up of Bauma 2013, including new products and services, turn to page 10.

CARLY LOVEJOY, EDITOR

**"In an age where relationships are increasingly built upon virtual networking – e-mail and telephone calls – exhibitions present a valuable opportunity to cement existing relationships and to build meaningful new ones in person"**



Федеральное государственное бюджетное учреждение науки Центральная научная библиотека Уральского отделения Российской академии наук (ЦНБ УрО РАН)



**News** 2

---

**Features**

Interview: ESCO 12

Special report: building solutions 16

Special report: nickel processing 19

Plant design 20

Rigid haul trucks 30

ADTs 42

Interview: Kal Tire 48

Mass mining 52

Locomotives 60

Tailings management 69

Contract mining 79

**Flashback & contacts** 87

---

**Classified advertising** 88

---

**Next month**

- Roadheaders/continuous mining equipment
- Comminution
- Modern mining consultants
- Fatigue monitoring and operator safety
- Mineral sands

**COVER**

Breaker Technology manufactures a range of products for mine and quarry applications, well recognised for its full line of underground utility vehicles, including mobile scalers. The Vibratory Pick Scaling Head is featured on the cover. A small hammer inside vibrates as the pry-point head turns, transforming the vibratory pick into a pry-bar. Not unlike a bird's beak, a cylinder allows the pivoting head to 'peck' away at the rock at all angles. For more information, go to [www.rockbreaker.com](http://www.rockbreaker.com)

