

**Creamer Media's  
Real Economy Yearbook 2009**

Publication Date: **June 26, 2009**    Booking Deadline: **19 May, 2009**

This annual publication provides a researched overview of current developments in selected industry and mining sectors.

To secure your advertising booking, please contact:  
Reinette Classen on +27 11 622 3744 or email:  
advertising@creamermedia.co.za



HOME | BREAKING NEWS | WORLD NEWS | MULTIMEDIA | MAGAZINE | SECTOR NEWS | ABOUT US

27th November 2008    videoclips    audioclips    podcasts    multimedia

Base Metals | Coal | Diamonds | Diversified Miners | Environmental | Exploration | Ferrous Metals | Gold | Health & Safety | Legislative Environment | Mining Services | Platinum | Silver | Uranium

Advertisers' Catalogue | Electra Mining | Mining Indaba | Product Listing | Company Announcements | Careers | iPhone

➔ [Advanced Search](#)    |    [Subscribe](#)    |    [Free Daily Email](#)    |    [Subscriber Login](#)    |    [RSS](#)

POWERED BY GOLD 814.25 \$/oz ▲ PLATINUM 862.00 \$/oz ▲ R/\$ exchange 9.94 ▼ R/€ exchange 12.76 ▲

**RELATED ARTICLES**

MULTIMEDIA | STORIES |

**BREAKING NEWS TODAY**

- MULTIMEDIA | STORIES |
- Simmers may retrench Buffelsfontein workers, starts optimisation programme
- Gold barely moves after deadly Mumbai attacks
- 'Unconstitutional' mine safety Bill could cost SA skills - chamber
- SA mulls uranium export restrictions to safeguard supply
- Zambian firm reduces power supply to copper mines

**Reliable Mine Mapping**  
Handheld XRF analyzer quickly predicts valuable ore deposits!  
www.niton.com

**Level measurement solids**  
Great accuracy in level and volume measurement of bulk solids in 3D  
www.apm-solutions.com

**Testing Equipment**  
Rohde & Schwarz T & M Systems 75 Years Of Quality And Experience  
Rohde-Schwarz.com/Test&Measurement

**Nutrient Analyser**  
NOx, PO4, NH4, TP, TN Discrete, CFA, SFA 120 samples p/hr  
www.seal-us.com

## New cyanide-measurement system for mines

TEXT SIZE + -

By: [peter cromberge](#)  
Published on 25th February 2005

An online analyser has been developed to measure weak acid-dissociable (WAD) cyanide in the effluent of gold-mines.

Johannesburg company Process Analytical Systems has devised a system – the WAD 1000 – to accurately measure the content of WAD cyanide online in the plant environment within 20 minutes.

Cyanide, which is commonly used in the recovery of gold, is normally pumped into tailings dams, along with other effluent.

As open bodies of water containing cyanide may pose serious health threats to people and animals, chemical reagents are sometimes added to effluent to break down the cyanide component.

WAD cyanide is considered toxic if ingested by people or animals, says Process Analytical Systems director Achim Sehm. The system, which is installed in the tailings section of plants, can measure two streams at the same time. It prepares a sample of effluent by adding reagents, after which picric acid is mixed with the sample.

The picric acid reacts with WAD cyanide and the chemical reaction is accelerated through heat. The sample is then measured with an online photometer to ascertain the levels of WAD cyanide.

Accurate readings of the WAD cyanide will enable operators to determine the exact proportion of reagent required to neutralise the WAD cyanide.

Sehm notes that, although mines can simply neutralise the chemical by adding significant amounts of reagent to effluent, the costs involved would be too high. He adds that, until now, when WAD cyanide readings were made, they were normally obtained through laboratories. The data became available too late to control the process or warn operators of high WAD cyanide.

"The system is already on a plant owned by a multinational mining group and has received positive results," says Sehm.

He adds that the device auto-matically cleans glassware and tubing, and only requires that operators keep the machine stocked with the reagent for readings.

Editor: [peter cromberge](#)

print | 
 email    
 
 SHARE   

HIDE COMMENTS    BACK TO TOP

THIS ARTICLE CONTAINS NO COMMENTS

CANCEL COMMENT

All comments must be approved by our editors, click here to read the [editorial guidelines for comments](#). Please allow some time for our editors to approve your comment after posting.

\* Required Fields

\*

\*

Add your comment here



\* Please enter the text you see in the above image.

Subscribe me to the Free Daily Email

[HOME](#)

[DISCLAIMER](#)

[BACK TO TOP](#)





**GOLD FIELDS**

we deliver  
we deliver



**Johannesburg Office**  
24 St Andrews Road  
Parktown  
Postnet Suite 252  
Private Bag X30500  
Houghton, 2104  
Telephone: (+27)(11) 644 2400  
Facsimile: (+27)(11) 484 0626




**K'ENYUKA**

is a linked-enterprise of  
Read, Swatman & Voigt  
(Pty) Limited (RSV),  
a well-established and  
successful organisation



Tel: +2711 498 6000  
Fax: +2711 498 6000  
mail@kenyuka.com  
[www.kenyuka.com](http://www.kenyuka.com)





**DEEPENING  
DEMOCRACY  
THROUGH  
ACCESS TO  
INFORMATION**

To subscribe to our  
FREE weekly  
newsletter, contact  
Reinette Classen on  
+27 11 622 3744  
CLICK HERE to email

**Polity**  
www.polity.org.za

**ITHUTHUKA**

CLICK  
HERE



**STARPLEX 393 cc**



**Steam Radiators  
(Finned Tubing)**



Any re-distribution of this information is strictly prohibited. Copyright © Creamer Media (Pty) Ltd  
Website Credits  
1.924s - 131pq - 3rq

