

Sürelî Yayınlar 1986

Mining Magazine

APRIL 1986

- 283 Panorama
New Castle Energy develops the U.S.A. 's first hydraulic coal mine; The demand outlook for U.S. coal; 30 years of uranium mining in Hungary; Tantalum and niobium in Greenland.
- 300 Metallgesellschaft's Mines
Many details are given of technical advances in methods and equipment used by Metallgesellschaft in its mines in Germany and elsewhere.
- 312 Placer Gold Mining
The author discusses in detail the various considerations regarding sampling, equipment selection etc. to ensure a profitable small-scale placer mining operation.
- 323 BAUMA 86
A brief look at some of the equipment of interest to the minerals extractive industries on display this month at this important show in Munich, F.R.G.
- 330 Comminution
A review of equipment offered by manufacturers—some recent improvements and new models: Jaw crushers (330), Gyratory and cone crushers (334), Grinding mills (337),

Rolls, impactors and hammer crushers (342), Roller mills and pulverizers (345), Wear resistant components and grinding media (347), Automatic control (350).

MAY 1986

- 376 Panorama
New Zealand's coal expansion plans; Underground coal gasification experiment in U.K.; Huge ice plant to cool S. Africa's gold mines; Northern Ireland lignites; Polish mining output in 1985.
- 394 Republic of Korea
Anthracite and base metals are mined and processed in this fast developing country.
- 405 Heap leaching
A comprehensive survey of the heap leaching techniques currently being used in North-America for the recovery of gold and silver.
- 415 Diesel engines
A review of some of the major manufacturers of diesel power units used to drive equipment at surface and underground mining operations, highlighting new developments.
- 425 Lignite in Turkey
Lignite is an important energy source in Turkey; this article looks at available resources and their characteristics, current production and utilization.

Mining Engineering

APRIL 1986

- 237 Trolley assist aids haulage at Iscor's Sishen Iron mine in South Africa
B.J. Vorster

240 Development described for fluidized bed combustion at TVA's 20-MW pilot plant
James W. Bass HI

- 245 US and the world mineral positions, 1985 to the year 2000
John D.Morgan

- 249 Symposia, technical sessions aimed at making US mining industry competitive with the rest of the world
Steve Krai
- 255 Economic incentive for crawler/transporter use in mobilizing portable rock handling equipment
W. Trask
- 261 Research on slurry loading/unloading of coal vessels in Japan
T. Kawashima, S. Tejima, and K. Nagata
- 266 New look at underground coal mine safety
E.M. Spokes

MAY 1986

SPECIAL ISSUE: 1985 ANNUAL REVIEW

- 321 EXPLORATION
- 331 MINING
- 340 PROCESSING
- 349 COAL
- 355 INDUSTRIAL MINERALS

JUNE 1986

- 409 Cerrejon North Block project is making Colombia a major coal exporter
Bruce M. Everett and Gregory D. Savage
- 413 US mining: Have we done enough? Are we doing enough for the future?
I. Iwasaki
- 417 Hungary's Selmec Mining School, one of Europe's oldest, celebrates its 250th anniversary
Pal Barczy and Frigyes Egerer
- 420 Syncrude Canada Ltd. outlines its feeder breaker testing and development
David G. Adam
- 427 Site planning process: Application to land use potential evaluation for mined land
R.J. Sweigard and R. V. Ramani
- 433 Instrumented flexibly-lined loading pocket
J.F. Abel, Jr. and R.J. Spengler
- 437 On nonnegative weights of linear kriging estimation
E.Y. Baaft, Y.C. Kim, and F. Szidarovszky
- 442 DISCUSSION: New look at underground coal mine safety
E.M. Spokes

Industrial Minerals

APRIL 1986

- 21 Asbestos Rising in east but setting in west
- 39 Soda ash What solution?
- 63 Flint clay A hard refractory market
- 68 Certain Teed in profile Tackling the asbestos cement dilemma

40

MAY 1986

- 23 Slate Sales hit the roof
- 43 Fare comment Transport decisions and cost **evaluation**
- 63 Approaching \$200 sulphur?
- 64 UK industrial mineral statistics

JUNE 1986

- 25 Morocco - Phosphates floating the bill
47 Titanium minerals Expanding in all the continents

57 New Orleans Port Gateway to mid-continent America

63 Processing talc in Canada A review of studies at CANMET

70 An F for US farmland, fertilisers and food?

Institution of Mining and Metallurgy

APRIL 1986

A51 Water-jet drilling and its applications in mining and blasting
B. Mohanty and P. McFarlane

A57 Incidence of silicosis and its relation to dust dosage at Mufulira copper mine, Zambia
D.M. Mchaina and G.B. Misra

A61 Roadway formation in British coal mines
J.H. Northard

A71 Innovative underground methods in Swedish mines
S.K. Maw

A80 Problems associated with rock material properties in surface mining equipment selection
T. Atkinson, B. Denby and V.B. Cassapi

A87 *Technical note*
SFR—Sweden's final repository for reactor waste
N.R.I. Daud

MAY 1986

B51 Likely exploration targets—a financial viewpoint
K.M. Clews

B54 New trends in geological concepts
C.J. Morrissey

B57 Airborne geophysics—potential developments
J. T. Lynam

B63 Regional geochemistry—potential developments
J.A. Plant and D. Slater

B70 Remote sensing—potential developments
E.R. Peters

B74 Potential developments in ground geophysics
M.E. Young and S.J. Bullock

B77 Drilling—potential developments: (1) drilling equipment
R.O. Morris

B78 (2) in-the-hole equipment and techniques
R.W. Braithwaite

B80 Deposit modelling techniques and data handling
S. Henley and W.P.C. Stokes

B81 Comment—the geologist's viewpoint

B83 Post-orogenic felsic plutonism, mineralization and chemical specialization in the Arabian Shield
N.J. Jackson and CR. Ramsay

B94 Sedimentary and metamorphic factors in the development of the Pegmont stratiform Pb-Zn deposit, Queensland, Australia
J.P. Vaughan and R.L. Stanton

B122 *Discussion*
Feldspar, clay, organic and carbonate receptors of heavy metals in Zechstein deposits (Kupferschiefer-type), Poland
H. Kucha
Mineral deposits related to tectonic events accompanying arc-continent collision
A.K.G. Mitchell

JUNE 1986

- C63 Kinetics of chemical vapour deposition of TiN in the system Ti-Cl-H-N under surface-process limiting conditions ($N_2/H_2 > 0.5$)
Tsao Chih Jung, Chen Er Bao and Miao Hue Fang
- C70 Solvent extraction of aluminium from chloride and chloride-fluoride solutions with organophosphorus compounds (in particular, mononyl phosphoric acid)
N.T. Bailey and P. Mahi
- C79 Recovery of copper from converter slag by segregation roasting
B.K. Satapathy et al.
- C83 Reproducibility of semi-batch flotation test-work with the Leeds Open-Top Cell and of derived kinetic parameters
A. C. Apling and S. Ersayin
- C89 Pyrometallurgical recovery of metallic silver from silver halides and silver sulphate
C.A. Pickles and J.M. Toguri
- C95 Galena alteration in a bicarbonate environment
J.D. Salter and M.P. Jones
- CI07 Minor metals marketing
Howard Masters
- CI17 Vacuum electron-beam refining of CLEAR copper
A. W. Fletcher and W.J. Mitchell
- C125 *Technical note*
Environmental aspects of uranium extraction and processing in South Australia
R. Buckley

International Journal of Mineral Processing

MAY 1986

- 1 Application of Gy's sampling theory to coal: a simplified explanation and illustration of some basic aspects
G.J. Lyman
- 23 The hydrocyclone classifier—a numerical approach
K.A. Pericleous and N. Rhodes
- 45 Floc-size distribution of scheelite treated by shear-flocculation
P.T.L. Koh, J.R.G. Andrews and P.H.T. Uhlherr
- 67 The influence of electrolyte on precipitate flotation of cobalt hydroxide
K. Jurkiewicz
- 83 The effect of pH on the recovery of uranium and gold by high-gradient magnetic separation
J. Svoboda, I.J. Corrans and M.H.E. Spitze
- 99 Circuit analysis—general product equations for multifeed, multistage circuits containing variable selectivity functions
M.C. Williams, D.W. Furstenau and T.P. Meloy
- 113 Surfactant properties of alkyl xanthates
I.C. Hamilton (Footscray, Vic, Australia) and R. Woods
- 121 Leaching of hematite in non-aqueous and mixed aqueous EtOH-HCl solutions
I. Girgin, M. öner and L. Türker
- 131 Benefication of massive ilmenite by froth flotation
R.C. Behra and A.K. Mohanty
- 143 *Technical Note*
Fine-particle flotation in an acoustic field
S.K. Nicol, M.D. Engel and K.C. Teh
- 151 *Short Note*
Upgrading of Wadi Fatima iron ore
A.A. Manieh

CIM Bulletin

APRIL 1986

- 39 Diesel engines: mechanical considerations for equipment selection and operation;
D.G. Champion
- 43 Diesel-electric power generation and heat recovery at Nanisivik;
C. Jenkins
- 48 Diesel generators: electrical considerations for equipment selection and operation;
F. Hampshire
- 55 Locational aspects of mine development economics: Nova Scotia's competitive position in Canada;
Brian W. Mackenzie, Dallas W. Davis, Michel L. Bilodeau
- 64 Sulphur hexafluoride tracer gas as an alternative to pitot tube traverses in balancing industrial dust collectors;
Dale L. McKinnon and Jean-Pierre Farant
- 73 The technological future of Canada's uranium industry;
M.E. Grimes

MAY 1986

- 31 Geology and exploration, McDame asbestos deposit, Cassiar, B.C.;
A.A. Burgoyne
- 38 Barytes, the 'no-wait' agent;
John H. Fowler
- 43 Baymag—high-purity magnesium oxide from natural magnesite;
Hagen B. Schultes
- 48 Extender and filler mineral markets in the western United States and Canada;
Tood S. Harris

- 52 Solution mining of multi-component magnesium-bearing salts — a realization in the Netherlands;
D. Buyze, Noordelijke Zoutwinning B.V., and H. Lorenzen
- 61 Option pricing; a new approach to mine valuation;
Scott K. Palm, Neil D. Pearson and James A. Read, Jr.
- 89 Flotation column scale-up and modelling;
G.S. Dobby
- 67 Improved flow-through share rules;
Robert B. Parsons.

JUNE 1986

- 21 Variable speed AC drives—applications in mining;
Kurt D. Mitchell
- 28 An integrated hydraulic mining, selective agglomeration and hydraulic transportation process for western Canadian coals;
J. Janiak, W. Paulak, B. Ignasiak
- 33 Noise attenuation with exhaust after treatment systems on a scooptram at Falconbridge's Strathcona Mine;
M. U. Sauch
- 49 Survey on the requirements of computer training for the coal industry in Canada;
B.M. Das, D.B. Cross
- 53 Precious metals scavenging at Equity Silver Mines Limited;
P.B. Marchant
- 102 Electrolytic copper refining reviewed
John H. Schioen
- 108 Hydrometallurgical design projects for educational purposes;
J.E. Eacott, and J.W. Smith and D.H. Napier