# <u>Süreli Yayınlar</u>

# Mining Magazine

## JÜLY 1988

#### 6 Panorama

Mining to recommence at Parys Mountain, Wales; Level 18 mechanization, Minera Aguilar, Argentina; Caphouse — Yorkshire's new mining museum; Potash mining/processing in New Brunswick, Canada.

#### 18 Rammelsberg

This famous mine has finally run out of ore after working for 1,000 years. Geoff Pearse traces its history and describes recent mining and mineral processing methods.

#### 26 De-Silting Nchanga

John Raisbeck describes preliminary studies into ways of disposing of silt washed into the bottom of Nchanga open pit by heavy rains.

#### 32 Mine Surveying Professor Hodges of Nottingham University

discusses present and future trends in this rapidly-changing subject.

#### 38 Ground Consolidation and Sealing

Wolfgang Comely describes a number of possible applications of polyurethane grout, quoting several examples of its successful use.

#### 44 Opencast Coal Mining in Britain

Peter Grimshaw and Mike Smith appraise the problems facing Britain's dynamic opencast coal industry and report on some of the largest sites.

## AUGUST 1988

#### 76 Panorama

Channar iron ore project, Pilbara, Australia; Porgera feasibility study submitted; Colombian Government investigates Precambrian gold deposits; The Eduapriem gold project, Ghana; New geochem survey in Jamaica; Shanxi Province — setting for "Coal China •88".

#### 88 A TBM at Kiena

At the Kiena gold mine, Quebec, it was necessary to speed up exploration drivage, Daniel Vanin explains why a TBM was chosen and tells what it achieved.

#### 94 Heap Leaching in Northern Ontario

Philip LeHoux describes how heap leaching operations fared in a Northern Ontario winter.

#### 99 Hdrocyclones

Dr. Svarovsky discusses the many applications of hydrocyclones, which are of increasing importance, while Geoff Pearse describes the products of cyclone manufacturers.

#### 110 C.B. Radio Underground

The holder of U.K. licence G3PPT describes a radio system suitable for a cost-conscious mine.

#### 112 Tungsten in the USSR

V. V. Strishkov traces the production of tungsten concentrates in the USSR since 1917.

## SEPTEMBER 1988

#### 150 Panorama

Green light for Escondida, Chile copper project; Ok Tedi targets 70,000 t/d production ' level; Update on coal industry in the P.R.C; Pahtohavare — an Au/Cu deposit near Kiruna, Sweden; Pueblo Viejo — a subaqueous epithermal gold deposit.

#### 166 Mount Magnet

The new Black Cat // treatment plant at Metana Minerals' Western Australian gold mine is already operating above designed capacity.

#### 175 Longwall Mining

Tom Atkinson and Mike Richards rewiev current developments in longwall coalface design and the equipment used, highlighting special areas of research.

#### 183 Selecting a Roadheader

Helmut Schneider discusses points to consider when choosing equipment.

188 Coal Mines Survey

Western World mines accounting for 80% of

#### coal output.

#### 199 Geostatistical Evaluation

The authors propose an integrated geologicalgeostatistical approach to resource evaluation.

# **Mining Engineering**

## JULY 1988

- 501 Review of 1987 international mining activities Charles L. Kimbell
- **510** Mining in China: A personal perspective *I.S. Parrish and Barbara S. Parrish*
- 513 What it's worth : A review of mineral royalty information *H. Lyn Bourne*

### AUGUST 1988

- **791** Echo Bay details exploration activities at its Cove gold deposit in Nevada David L. Emmons and Robert D. Coy le
- **795** Foreign investment increasing in US minerals industry Louis J. Sousa, Elizabeth H. Yaremchuk, and Annette P. Graham
- 800 Little-explored area of Argentina shows base and precious metals potential Barton J. Suchomel
- 804 TECHNOLOGY NEWS: Diesel generator set cuts mine's annual fuel consumption
- 807 Palabora Changing to meet the challenge of the 80's J.W. LUI, J.P. Gliddon, and G.C. Wade
- 815 Classification effects on wet ball milling circuits *R.E. Mclvor*
- 820 Effect of topography on ground movement due to longwall mining A.W. Khair, M.K. Quinn, and R.D. Chaffins

### SEPTEMBER 1988

- 869 Weighing bulk commodities in the mining industry: More than just checking the scales *H. Colijn*
- 875 Using diamond drilling to evaluate a placer deposit: A case study J.G. Stone, V.M. Mejia, and G.T. Newell
- 881 How to limit fire and explosion hazards with oil-flooded, rotary screw compressors Steven J. Luzik
- 885 Degradation process in coal slurry pipelines M.G. Ayat and B.C. Scott
- 889 Small block VCR mining at Homestake J. Muir
- 893 Structural analysis of mine pillars using finite element method — A case study D.H.Y. Tang and S.S. Peng
- 898 Scrubbers versus sprayfans for face ventilation — A comparison J.C. Volkwein and E.F. Divers
- 900 DISCUSSION: Computer-aided schedule optimization in room-and-pillar and longwall operations P.K. Chatterjee, G. Johnston, and S. Holguin

## **Industrial Minerals**

### JULY 1988

- 19 Mexico's industrial minerals Meeting manana's challenge
- 43 Bentonite Overcapacity' in need of markets

## **AUGUST 1988**

- 17 Titanium dioxide pigment Expansion worldwide
- 32 Minerals in pharmaceuticals The key is quality assurance
- 44 Chile 1987 Industrial minerals review

52 • Dewatering and densification by hydrocycloning-thickening

### SEPTEMBER 1988

- 37 Dolamite More than crushed stone
- 67 Bauxite Aluminating non-metallurgical sectors

# Institution of Mining and Metallurgy

#### JULY 1988

- A109 Geothermal energy: fuel for the future *H.R. Bichan*
- A118 Statistical analysis of samples from lognormal distribution by Bayesian methods with minerals industry applications J.A. Corbyn
- A125 The survival of mining conditions of its viability Sir Donald Tebbit
- A129 Design and economic evaluation of hoisting systems H. Sevim and Quing Wang
- A134 Technical notes Rockbolting in Sweden and the United Kingdom and its application to Sydney Coalfield, Nova Scotia, Canada T.R.C. Aston
- A140 Mechanization and organizational changes in Sweden's mining industry M.D. Rosengren
- A144 Tunnelling '88: report of proceedings
- A160 Discussion Examination of empirical formulae for predicting optimum mine output E. Arioğlu

## **AUGUST 1988**

**B99** Na, K and Li contents of mineralizing fluids in the Northern Pennine Orefield, England,

-and their genetic significance

- B108 Identification of cordierite-anthophyllite rock types associated with sulphide deposits of copper, lead and zinc *R. Beeson*
- B116 Developments in regional geochemistry for mineral exploration J.A. Plant, M. Hale and J. Ridgway
- B141 Technical notes A Lower Devonian gold-bearing hot-spring system, Rhynie, Scotland CM. Rice and N.H. Trewin
- B144 Contrasting dispersion patterns of W in drainage sediments from scheelite mineralization in Mount Carbine district, north Queensland, Australia *R.W. Baxter and A.C. Dunlop*
- B148 Discussion Evaluation of brick-clay reserves J.E. Prentice

## SEPTEMBER 1988

- C109 The future of mineral processing J.E. Astier
- CI 15 Determination of comminution characteristics from single-particle breakage tests and its application to ball-mill scale-up S.S. Narayanan and W.J. Whiten
- C125 Sea water as a 'rusting agent' in direct reduction technology for the production of synthectic rutile *R.S. Ramakrishna, A.A. Paul and J.P.R. Fonseka*

- C129 Direct analysis of gold species on activated carbon by Mössbauer spectroscopy J.D. Cash ion et al.
- C134 Frother performance in flotation of copper and lead-zinc ores T. V. Subrahmanyam and E. Forssberg
- C143 Carbon and energy requirements of chlorination of titanium oxides — an equilibrium analysis

International Journal of Mineral Processing

## JULY 1988

- 161 Role of hydrolyzed cations in the natural hydrophobicity of talc M.C. Fuerstenau, A.Lopez-Valdivieso and D.W. Fuerstenau
- 171 Processing of low-grade Indian molybdenite concentrate by chlorination in a fluidisedbed reactor K.U. Nair, D. Sathiyamoorthy, D.K. Bose and CK. Gupta
- 181 Effect of feed grade on industrial zinc rougher flotationJ. A. Frew and K.J. Davey
- 205 Effects of temperature on hydrocyclone efficiency S.K. Kawatra, T.C. Eisele, D. Zhang and M. Rusesky
- 213 The effect of bubble size distribution on selectively of iron ore flotation M. Szatkowski and W.L. Frey berger
- 229 On the interactions at interfaces in fluorite flotation R. Perea-Carpio, F. Gonzalez-Cabellero and J.M. Bruque
- 241 Validation des mesures par équilibrage hiérarchise de bilans-matière (Data validation and hierarchical mass-balance equilibration) D. Maquin, J. Ragot, M. Darouach and J. Fayolle
- 253 Adsorption of gold from acid thiourea solutions on activated carbon

B.K. Chadwick and Y.K. Rao

- C150 Kinetics of dissolution of sulphide minerals in ferric chloride solution, 1: dissolution of galena, sphalerite and chalcopyrite P.C. Rath, R.K. Paramguru and P.K. Jena
- C159 Kinetics of dissolution of sulphide minerals in ferric chloride solution, 2: application to complex sulphide concentrates P.C. Rath, R.K. Paramguru and P.K. Jena

R. Schmidt, F Barbagelata, H. Rivera, J. Valencia and S.A. Moya

- 265 Developments in the control of flotation columns M.H. Moys and J.A. Finch
- **279** Selectivity in column flotation froths J.B. Yianatos, J.A. Finch and A.R. Laplante
- 293 Zirconium ion flotation with long-chain alkylsulfates from nitric and uranyl nitrate solutions
  P. Bernasconi, J.E. Poirier, G. Bouzat,
  P. Blazy, J. Bessiere and R. Durand
- 311 Technical Note
   Innovative process for beneficiation of dolomitic phosphate ores
   /. Anazia and J. Hanna

## SEPTEMBER 1988

I On the conditions of effective surface hydrophobiz atio n of synthetic chalcocite by ethyl xanthate L. Holysz and E. Chibowski

II The characterization of size distribution as a reciprocal hyperbolical function A. Mianowski

- 27 The INCO-voltammetric cell: a new approach to flotation modelling *M. Hodgson and G.E. Agar*
- 47 Flotation of dolomitic impurities from Jhamarkotra (India) phosphorites B.M. Moudgil and D. ince

- 55 Effect of oolite structure on direct reduction of oolitic iron ores*Y. Zimmels, S. Weissberger and I.J. Lin*
- 73 An electrochemical characterization of pyrites from coal and ore sources*A. Briceno and S. Chander*
- 81 Significance of the efficiency index in evaluating the economics of beneficiation of coal fines by the oil agglomeration technique *S.K. Hazra, T.C. Rao and G.G. Sarkar*
- 91 Investigation of xanthate interaction on platinum and chalcopyrite by small amplitude cyclic voltammetry J.R. Roos, J.P. Celis and A.S. Sudarsono
- 111 Effect of the depressing agents  $FeSO_4$  and NaCN on the surface properties of galena in the flotation system S.R. Popov, D.R. Vucinic and N.M. Calic
- 125 Energy split in multicomponent grinding *P.C. Kapur and D.W. Fuerstenau*
- 143 Effects of lifter bars on the motion of enmasse grinding media in milling *L.A. Vermeulen and D.D. Howat*
- 161 Technical Nöte
  Flotation column for fine coal beneficiation
  P.S.R. Reddy, S.G. Kumar,
  K.K. Bhattacharyya, S.R.S. Sastri and
  K.S. Narasimhan

# **CİM Bulletin**

## JULY 1988

- 53 Development and field testing of a tension measuring gauge for cable belts used as ground support,*P. Choquet and F. Miller*
- 60 Geotechnical monitoring of tunnel boring machine drivages at the Donkin-Morien Mine; Nova Scotia, J.L.Gilby, C.M.K Yuen
- 73 Summary of twenty-four surface crown pillar case studies. M.C. S.Nantel, Rock Ltee, Groupe Conseil and D.Lessaru

- 78 Foolwall anchoring at Smoky River Coal Limited;
- 86 A review of problems in optimizing extraction in gold leaching *R.P Loges and P.L Lenaux*
- 90 Till geochemistry as a technique for gold exploration in Northern New Brunswick. *A.G.Pronk and D.M.Burton*
- 103. Prevention of corrosion in a -craft- an overwiev of evaluation and protective treatments *L.Sainais*
- 111 Control of the acidic aerosol resulting from electrooperations.A.Papachristodoulou and J. W Smith.

## AUGUST 1988

- 31 Computer-assisted geological interpretation and orebody modelling;
   A.C. Moerman, K.R. Notley and C.W. Pelley
- Potential applications of knowledge-based systems in mining;
   K. Fytas, J.L. Collins, F.Flament, A.Galibois, and R.Singhal
- 44 Computerized cost estimating for underground mines;J.B. Scott
- 51 Falconbridge's data highway; Lloyd F. Dunham
- 56 Computerized maintenance: making it work for you: *Rae Simpson*
- 66 Dimension-stone potential in the Nain anorthosite;J.R. Meyer and P.L. Dean
- Gold placers in Pleistocene glacial deposits;
   Barkerville, British Columbia;
   N. Eyles and S.P. Kocsis
- 80 Canadian Exploration Incentive Program; Robert B. Parsons

85 Comparison of laboratory and field abrasive tests;*M. Fiset and D. Belley* 

## SEPTEMBER 1988

- 35 Waste dump management at Quintette Coal Limited; *W.P. Tassie*
- 40 Large dykes of the Suncor oil sands mine; JR. Lahaie, and W.K. Chan
- 45 Air-decking techniques for controlled blasting in open pits; *F. Urekar and R.B. Pankhurst*
- 50 Highland Valley Copper's in-pit crushing and conveying system;

M.D. Scott

- 57 Working with geological complexity at Ouintette Coal Limited's Mesa open pit; *G.P. Gormley*
- 64 Matching mining methods to complex coal geology; *B.J. Morash*
- 71 Geotechnical Assessment of the southeast wall slope failure at Highmont Mine, British Columbia; *H.W. Neivcomen and B.C. Martin*
- 71 Afton—a geotechnical pot-pourri; DH, Stewart and G.J. Reid
- 84 Post-graduate theses in Canadian universities on geologic research related to mineral deposits, 1986-1987