Süreli Yayınlar

Mining Magazine

APRİL 1988

249 Panorama

Graham Island gold deposit, B.C., Canada; Kayelekera uranium deposit, Malawi; U.S. coal production forecast; Lublin coal, Poland; Hungary's aluminium industry; Recycling aluminium in Kentucky; Plans for Cuban nickel.

- 264 Trackless Mining at JCI
 Increased productivity, lower working costs
 and better gold recovery have resulted
 from the introduction of mechanized
 mining at JCI's mines.
- 276 The Channel Tunnel

 Eleven TBMs will drive some 156 km of tunnels in this £5 billion project.
- 291 Mining Investments

 Due diligence is needed in considering the many factors involved in a new project.
- 297 MINExpo

 What's on show at the American Mining

 Congress exhibition in Chicago, U.S.A.

 from April 24-28.
- 313 Tunnelling'88

 A brief preview of this tunnelling symposium and exhibition being held this month in London.
- 314 Mining Project Survey

 Introduction, 314; Gold Projects, 315;

 Non-gold projects, 328.

MAY 1988

363 Panorama

New Oryx gold mine to use Beisa shafts; Morro do Ouro — Brazil's low-grade gold producer; Asia/Pacific Mining Conference — a report; Derbyshire's Barmote Court celebrates 700 years of written mining law.

376 Gebeit Gold Mine

A modern operation which, at full production, will make a significant contribution

to Sudan's economy, reflecting the philosophy of U.K.-based Greenwich Resour-

- 382 Liner Design for Heap Leach Pads

 Heap leaching can be very profitable, but

 not if the pad leaks! Factors involved in

 pad design.
- 388 HDPE Geomembranes

 One of the materials used in heap-leach pads.
- 392 West African Gold

 An account of the major gold prospects
 in the Ivory Coast and surrounding countries
- 398 Gold in the S.W. Pacific

 Historical and current gold production,
 and its geological origins.
- 406 Small Precious-Metal Projects

 Strategies for small precious-metal projects
 in third world countries.
- 417 Andalusite

 A comprehensive review of this important refractory mineral.

JUNE 1988

449 Panorama

Rapid restoration after lignite mining in Hungary; Big Pit on Kalgoorlie's Golden Mile; The molecular structure of explosives; BSC celebrates 75 years of stainless steel.

- 460 Fontane Talc Mine

 The use of rubber-tyred LHDs has greatly improved stoping productivity at this mine in northern Italy.
- 466 Whatley quarry

 With recent completion of a 3-year redevelopment programme costing over £.25

 million, this limestone quarry in Somerset,

 U.K. is one of the most efficient in Europe.
- 472 Reagents

 The wide range of reagents used in mineral processing is described, and their applications discussed.

- 483 XVIth IMPC show

 What's on show at the exhibition accompanying the XVIth International Mineral

 Processing Congress taking place this month
 in Stockholm, Sweden.
- 506 Open pit productivity

 The author looks at productivity in U.S.

 open pit mines and then compares productivités in three hypothetical open pit mines.
- 494 Mine Surveying

 A review of a modern computer-aided method of preparing mine plans and sections

Mining Engineering

APRIL 1988

- 239 History and geology outlined for Newmont's Gold Ouarry deposit in Nevada x Joseph C.Rota and Charles E.Ekburg
- 246 Security measures aimed at stemming the growing problem of employee theft at precious metals mines

 A. Dale Wunderlich
- 249 Microbial pretreatment of refractory sulfide and carbonaceus ores improves the economics of gold recovery

 S.R. Hutchins, J.A.Brierley, and C.L.Brierley
- 259 Analysis of fiber reinforcement in cemented backfill
 CD. Wittreich
- 263 Control of coal mine bursts

 K. Y. Haramy, J.P. McDonnell and L.A.

 Beckett
- 267 Gold in northeastern Siberia W. J. Cieslewicz
- 271 Nev simulator for designing belt system capacities in underground coal mines S.D. Thompson and L. Adler

MAY 1988

Annual Review

313 Exploration

334 Mining

343 Processing

355 Coal

JUNE 1988

- Geology of the Mesquite deposit, Imperial County, California
 S. L. Manske, W. F. Matlack, M. W. Springen, A.E. Strakele, Jr., S.N.Watowich, B. Yeomans, and E. Yeomans
- 444 TECHNICAL NOTE: Improving mandated training through on-site safety services M.C.Radomsky, L.W. Saperstein, D.L.Passmore, and J.D. Bennett
- 447 Agglomerating gold ores at the Haile gold mine S.E.Phifer
- 451 Methods for assessing effects of longwall mining on surface subsidence G.A. Hazen and S.M. Sargand

Industrial Minerals

APRIL 1988

- 29 Northeast USA and its minerals: An historical perspective
- 34 Northeast USA and its minerals; Modern times
- 57 World gypsum a review Slowdown anticipated
- The gypsum industry in Australia
- 135 Greek raw materials for the glass and ceramics industry
- 144 Optimising supplies to meet ceramic market trends

150 Plastics packaging; Friend or foe

155 Minerals in paper; A quality paradox

MAY 1988

- 23 Burnt lime/dolime: Seeking markets green
- 52 Glass and ceramic spheres Myriad names in a growing market
- 58 Developments in superconducting magnetic separation
- 70 Technological developments in ceramics manufacture

JUNE 1988

- 19 Industrial minerals of France Current production &developments
- 37 Pyrophyllite: Far East steels the market
- 51 Borates in the European glass industry
- 63 Bikita minerals -A mine profile

Institution of Mining and Metallurgy

APRIL 1988

- A57 Developments in rock mechanics; a perspective of 25 years *M.D.G. Salomon*
- A69 A testing time at sea—offshore NTD and British Gas Sir Denis Rooke
- A77 Rock reinforcement of a caving block in variable ground conditions, King mine, Zimbabwe *C.B. Brumleve*
- A85 Sector rehabilitation for African small mines *J. W. Hollaway*
- A94 When an invention is something new: from practice to theory in tunnelling *G. Sauer*

MAY 1988

- B51 Mechanics of downward permeation of water in crystalline rock, with application to problems of geothermal energy extraction *M.J. Russell and J. Hall*
- B57 Tests on use of sulphur gases in soils to detect hidden mineralization R.A. Nicholson, D.Peachey and T.K.Ball

- B64 Zn—Pb sulphides as rim cements, filling cements and replacements of carbonate sediments, Moyvoughly, Ireland—a product of two convective cells *H. Kucha*
- B77 Technical notes
 Platinum-group minerals from Hochgrössen
 ultramafic massif, Styria: first reported
 occurrence of PGM in Austria
 O.A.R. Thalhammer and E.F. Stumpfl
- B82 Silver and lead mineralogy in gossan-type deposits of Sierra de Cartagena, southeast Spain

 J. A. Lopez Garcia, R.Lunar and R.Oyarzun
- B88 New evidence of epithermal gold potential in andesitic volcanics of the Central Inlier, Jamaica

 P.R. Simpson et al.
- B92 Mineral deposits research in the United Kingdom—planning for the future

JUNE 1988

- C53 Stability relations of iscorite (Fe₇SiO!₀) in the system Fe—Si—O *J.Nell and J. C. van den Berg*
- C61 Batch reduction of iron ore with hydrogen in a fluidized bed

 A. Watts, C.C. Young and K.McG. Bowling
- C72 Metals for the electronics industry: proceedings of the twelfth annual commodity meeting—2

Advances in semiconductor silicon *J.G. Wilkes*

Tellurium in the electronics industry—extraction, purification and uses *P.E. Skinner*

Production of selenium for photoelectrical applications *M. Caffarey*

Properties and quality control of semiconductor materials R. G. L. Barnes Indium—extraction from lead, zinc and tin circuits *P. Halsall*

Discussion

C102 Technical notes

Interaction of iron and bismuth in molten copper

X. H. Jiang, D.C.Lynch and W.G.Davenport

C104 Extraction of copper, nickel, cobalt and manganese from Indian Ocean nodules by sulphation roasting *Y. V. Swamy et al.*

Internationa! Journal of Mineral Processing

MAY 1988

- The influence of particle size and contact angle in mineral flotation
 R. Crawford and J. Ralston
- 25 A model of flotation selectivity M. Szatkowski
- 33 Froth stability, particle entrainment and drainage in flotation-a review
 TV. Subrahmanyam and E. Forssberg
- 55 The collectorless flotation and separation of sulphide minerals by Eh control R.A. Hayes and J. Ralston
- 85 The influence of Bayer liquor on the dewatering of alumina trihydrate D.J. Fox, M.S. Wainwright, C.J.D.Fell, Ho Yuen Chuan, A.G.Fane and R.G.Robins

- 93 Computer-assisted calculations of thermodynamic equilibria in the galena-ethyl xanthate system

 B.I. Palsson and K.S.E. Forssberg
- 123 Interaction of glycine and a glycine-based polymer with xanthate in relation to the flotation of sulfide minerals J.S. Hanson M.Barbaro D. W. Feurstenau A. Marabini and R.Barbucci
- 137 Estimation of breakage parameters in grinding operations using a direct search method

 V.R. Koka and O. Trass
- 151 Flotation of sulphide minerals by anionic and cationic dyes

 D.K. Sengupta S.K. Roy and S.C.Sircar

CIM Bulletin

APRIL 1988

- 35 Wet grinding of asbestos ores through reduction slurry viscosities *D.E.M. Plaumenn*,
- 40 Laboratory and pilot-plant beneficiation of chromite are from Bird River, Manitoba *P.R.A. Andraws*.
- 49 The geology of the Paleozoic formations utilized by the limestone industry of Ontario

 R.K. Bezys and M.D. Johnson,
- 59 The clay products industries of Ontario G.R. Gulliet

- 64 Industrial minerals in Canada; development trends and recent initiatives at Energy Mines and Resources Canada Michel Prud homme and Jean-Yves Tremblay.
- Failure and repair of a mine hoist drumshaft

James E. Rider,

- 79 Conversion of a crushing plant to a gold mill in a copper smelter *G.MacFarlane*
- 85 Modernization of Cominco's zinc plant and lead smelter at Trail, British Columbia

C.A. Sutherland

MAY 1988

- 21 Background and production history *V.F. Moore*
- 27 Computer-assisted mine production planning *J. W. Hendry*.
- 31 Equipment problems and their resolutions *W.D. Watson*
- 36 A western Canadian coal Producer's viewpoint, G.Capobianco
- 39 The use of uranium and coal at Ontario Hydro *Alan R. Holt.*
- 43 A user's experience with microcomputers in a mine mainteance organization *G. Robiesky*
- 46 Sedimentary phosphate rock in Albarta and southeastern British Columbia: resource potential the industry technology and research needs D.E. Macdonald
- 53 Applying tracer gas techniques to evaluate the air distribution in flood leaching stopes.

 S. Hardcasite and A. Sheikh
- 59 Traffic lights at mines Gaspe underground operations.

 J.L. Frenatle F. Himbeault
- 69 Non-ferrous pyrometallurgy—a changing Industry. John C. Taylor.

- 74 Calcine, its use in EZ s new selective zinc precipitation process for impurity and water balance control O.M.G. Newman, D.J. Palmer and J.R. Welsh
- 81 Aerosol frother addition in column flotation

 I.M.Flint P.MacPhail and G.S.Dobby

JUNE 1988

- 29 Dilution and geostatictics *Michel David*
- 36 A Canadian program in mining automation J.Nantel M.Scoble and A.Piche
- 41 Educating mining engineers for the 21st century *J.M. Whiting and N.J. Duncan*
- 109 Rail wear assessment techniques at FAST R.P. Reiff
- 117 In-track assessment of premium and intermediate grade rail steels

 K.J. Griffin and G.W. Rosval
- 125 Recent developments in the zinc plant of the Hudson Bay Mining and Smelting Company Limited *G.J. Desroches*
- 131 Comparison of energy consumption in improved sulphate process and alternative technologies for zinc electro winning *D.L. Piron and. M. Sider*.
- 5 0 Car benefits; fasten your seatbelts *Robert B. Parsons*