MARCH 1999

135 Resin-grouted cable supports for coal mine ground control
S.C. Tadolini, J. L. Gallagher and J. M. Goris

140 Tailings dam failures need not be disasters - The Thickened Tailings Disposal (TTD) system
E.I. Robinsky

143 estimation of large open pit haulage truck requirements
G. H. Blackwell

150 Process control-And where are we going?
B. Flintoff

157 Liability Transfer Agreements for the funding of mine closures using Monte Carlo simulations
D. R. Anderson, D. A. Orava, N. C. Garisto, and M. Donahue

161 The future of extractive metallurgy
F. Habashi

APRIL 1999

47 Reclamation of coal mine waste dumps at high elevations in British Columbia : 25 years of success
R. J. Berdusoco and B. O’Brien

51 Prince Colliery underground rope haulage system
J. T. Ling

55 A method to synchronize the tandem dragline systems
B. Erdem and N. Çelebi

62 Methane research in the Sydney Coalfield
D. J. Forrester, D. Young, D. Chipman and D. Center

67 Management of tailings pond water at the Kettle River Operation
R. B. Ferguson

70 Hydrochloric acid pressure - oxidation of a pyrite concentrate from the Vaal Reefs East Gold Mine
Y. A. Topkaya

75 r.ttringilo formation in lime-ivmeclialed mine tailings: II. Experimental study
M. Hossein, A.M.O. Mohamed, F.P. Hassani and H. Elbadri

MAY 1999

45 Transforming the mining industry through electronic commerce
L. Mottola, M. Lipsett and M. Scoble

53 The opportunities for online education and training
J. E. Curry

57 CMT-Net, an interactive website for the mining industry and the mining equipment supplier community
P. Dauphin

61 Optimizing inventory stockpiles and mine production: An application of separable and goal programming to phosphate mining using AMPL/Cplex
M. L. Smith

65 Co-production of heavy minerals from oil sand tailings
M. Owen and R. Tipman

74 use of ground waste glass and Normal Portland cement mixtures for improving slurry and paste backfill support performance
J. F. Acrhibald, J. L. Chew and P. Lausch

JUNE 1999

111 Evaluation of refractory brick classes for the Cerro Matoso S.A. electric furnace
J. R. Donald, P.H. Lauzon, J. Duran, R. Parra and L. Tejeda

119 Copper and nickel smelting with virtually zero gas emission - A vision for the future
N. A. Warner

124 investigations into refractory wear at Cerro Matoso S.A.
J. R. Donald, P. H. Lauzon, S.W. Ip and J. Duran

131 application of mineral processing techniques to the recycling of wastepaper
138 How do engineers perceive, assess and maintain their competence when almost everything they know keeps changing?  
M. Matthias

141 Respect for employees: Clarifying expectations and authorities  
M. J. Daniel

143 The argument for a "bare bones" base case  
L. D. Smith

151 Resource/reserve inventories: What are the objectives?  
M. Vallée

JULY 1999

37 ROCKD3D². A one million element + modelling technology for rapid mine design and planning  
Y. S. Yu, S. Vongpaisal, M. Betournay, N. A. Toewes and R. Boyle

40 Examination of hanging - wall stability in a weak rock mass  
J. G. Henning and H. S. Mitri

45 A theory of cutter roof failure and its application  
K. Barron and A. Baydusa

50 A dynamic support system for yielding ground  
E. De Souza and P. Mottahed

56 Mining in the 21st century using information technology  
J. Peck and J. Gray

60 Flotation improvements at Placer Dom's Campbell mine  
T. Y. Chong, J. A. Folinsbee, A. Robitaille, T. Odo and G. Wickens

71 2001 A Mining odyssey - New equipment and technology in mining at Highland Valley Copper  
D. M. Richards

INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING; SCIENCES

JUNE 1999

279 Draft ISRM suggested method for the complete stress-strain curve for intact rock in uniaxial compression  
C. E. Fairhurst and J. A. Hudson

291 Suggested methods for laboratory testing of swelling rocks  
F. T. Madsen

307 Draft ISRM suggested method for in situ stress measurement using the compact conical-ended borehole overcoring (CCBO) technique  
K. Sugawara and Y. Obara

323 Circumferential strain behavior during creep tests of brittle rocks  
Y. Fujii, T. Kiyama, Y. Ishijima and J. Kodama

339 Fuzzy model for the prediction of unconfined compressive strength of rock samples  
M. Alvarez Grima and R. Babuska

351 Pre-and post-failure ground behaviour: case studies of surface crown pillar collapse  
T. Szwedzicki

361 Quantifying progressive pre-peak brittle fracture damage in rock during uniaxial compression  
E. Eberhardt, D. Stead and B. Stimpson

381 Estimation of permeability for the rock mass around the shiplocks of the Three Gorges Project, China  
Xing Zhang, W. Powrie, R. Harkness and Sijing Wang

399 Influence of surface roughness on the scatter in hardness measurements - a numerical study  
M. S. Bobji, K. Shivakumar, H. Alehossein, V. Venkateshwarlu and S. K. Biswas

405 Experimental study of seismic oscillation effect on rock permeability under high temperature and pressure  
V. M. Shmonov, V. M. Vitovtova and A. V. Zharkov

JULY 1999

413 Forecasting rock trencher performance using fuzzy logic  
M. Alvarez Grima and P. N. W. Verhoef

433 Influence of stress-induced and thermal cracking on physical properties and microstructure of La Peyratte granite  
C. David, B. Menendez and M. Darot

449 Tensile resistance of rock anchors  
A. Serrano and C. Olalla

475 FDM predictive methodology for subsidence due to flat and inclined coal seam mining  
L. R. Alejano, P. Ramirez-Oyanguren and J. Taboada

MADENCİLİK / HAZİRAN - EYLÜL 1999
493 A stress calculation model for the 3D borehole slitter
R. Corthésy, Guang He, D. E. Gill and M. H. Leite

509 In situ rock salt permeability measurement for long term safety assessment of storage
Ph. Cosenza, M. Ghoreychi, B. Bazargan-Sabet and G. De Marsily

527 Effects of very low permeability on the long-term evolution of a storage cavern in rock salt
Ph. Cosenza and M. Ghoreychi

535 Correlation between microcrack distribution patterns and granitic rock splitting planes
Y. Chen, T. Nishiyama, H. Kusuda, H. Kita and T. Sato

543 Effect of cyclic loading and strain rate on the mechanical behaviour of sandstone
S. K. Ray, M. Sarkar and T. N. Singh

551 Application of artificial neural networks to predictions of aggregate quality parameters
Yi Huang

AUGUST 1999

563 Simulation of a fully coupled thermo-hydro-mechanical system in freezing and thawing rock
K. M. Neaupane, T. Yamabe and R. Yoshinaka

581 Linking stress-dependent effective porosity and hydraulic conductivity fields to RMR
J. Liu, D. Elsworth and B. H. Brady

597 Effects of loading rate on rock fracture

613 Gas relative permeability and pore structure of sandstones
E. Dana and F. Skoczylas

627 Completing the hollow cylinder methodology for testing of transversely isotropic rocks: torsion testing
M. L. Talesnick and M. Ringel

641 Development of a shear-flow test apparatus and determination of coupled properties for a single rockjoint
T. Esaki, S. Du, Y. Mitani, K. Deusada and L. Jing

651 Three-dimensional numerical analysis of deformation and failure during top coal caving
Heping Xie, Zhonghui Chen and Jiachen Wang

659 Experimental methods for determining constitutive parameters or nonlinear rock modeling
P. A. Nawrocki, N. D. Cristescu, M. B. Dusseault and R. K. Bratli

673 Selection of the threshold value in RQD assessments
J. P. Harrison

687 Stability of symmetric wedge formed in the roof of a circular tunnel: nonhydrostatic natural stress field
A. I. Sofianos, P. Nomikos and C. E. Tsoutrelis

693 Dynamic nature of coal permeability ahead of a longwall face
D. H. Steve Zou, Chuxin Yu and Xuefu Xian

701 An application of linearised dimensional analysis to rock cutting
H. Alehossein and M. Hood

711 Numerical simulation of the, cutting of inhomogeneous rocks

INDUSTRIAL MINERALS

APRIL 1999

21 Talking Turkey
An update on the Turkish minerals industry
The Turkish minerals industry is more buoyant than ever. Turkish borates, magnesite, perlite, pumice and celestite are still leaders on the world scene. IM went to Turkey and returned with a producers round-up and a consuming market overview. The front cover shows the selimiye Mosque, built on the orders of Sultan selim II (1569-1575) in Edirne (Adrianople), Thrace, northerwetm Turkey.
(Courtesy : Turkish Tourist Office).

49 Optimised dry ball mill grinding

59 The final frontier
Kaolin processing lipuidity

67 3rd Processing for Profit Conference abstracts 26-28 April 1999, antwerp, Belgium

77 Ceramic casting
Challenges for US ball clays

89 Sillimanite minerals
Refractory markets slump takes its toll
A see-thaw market
The ups and downs of European HF
The hydrofluoric acid industry is largely dependent on the markets for fluorocarbons. The phase-out of CFCs caused a slump in HF demand in the early-mid 1990s, resulting in falling acid-grade fluorspar consumption. However, over the last three years HF demand has been rebounding as refrigeration and air-conditioning consumers increasingly switch to HCFCs and HFCs. Nevertheless the long-term outlook remains uncertain with the European Community leading an accelerated phase-out of HCFCs, and HFCs, also coming under pressure. How these changes may affect future shipments of fluorspar, such as those shown on the cover are discussed.

(Cover: courtesy of Cia. Minera las Cuevas, Mexico)

Grinding and bearing it
Zircon market insight

Fluorspar '99 Conference abstract
9-11 May 1999, San Luis Potosi, Mexico

Opportunities in New South Wales
Minerals of Australia’s oldest state reviewed

Building cement on dimension stone waste

The heat is on
A review of the non-ferrous refractories market
Compared to the steel industry, non-ferrous markets consume much lower volumes of refractories products. This niche market has been influenced by increased production of secondary metals and a trend towards environmentally friendlier and more cost-efficient smelting processes. As the non-ferrous industry has not been spared from increasing consolidation, refractories producers now have to build a closer rapport with larger customers to remain competitive. IM reviews the various non-ferrous consuming market of refractories products and provides a full account of the smelters, converters and other electrolytic cells. The cover picture this month shows dross removal in an aluminium furnace (courtesy of Harbison-Walker Refractories Co.).

New kid on the block
Can CRS make the grade?
40 Options and costs for CO2 reductions at coal-burning utilities
E.W. Hawk Jr.

45 Technology news: laser scanning aids underground mine mapping
M.C. Stuttle

47 Technology news:
Environmental information system assists in tailings management
Darrell V.B. McClarty

53 Safety considerations for transport of ore and waste in underground ore passes
B. Stewart, S. Iverson and M. Beus

61 Increase your plant recovery: more efficient spiral circuits
T. A. Toney, L. R. Fish and P. J. Bethell

65 Control method for surface blasting
E. Jannoulakis

APRIL 1999

17 Gold Hunter deep: from prospect to production
Glen L. Black

25 FMC's new soda ash technology is a success
Tony Dunnin and David Schaafsma

29 Resource recovery in waste treatment increasingly used
Surendra K. Mishra

35 Updating the Los Pelambres overland conveyor system
Linda Frederick

37 Caterpillar's new c-Series trucks featured at MineDemo
William R. Yernberg

41 Optimal control of coal segregation using online quality analyzers
R. Ganguli, J. C. Yingling, J. Zhang, J. Sottile and R. Kumar

48 Results of the orepass recirculation system at the Grasberg Mine, P. T. Freeport Indonesia
T. Casten, F. Calizaya and N. Pearson

52 Application of coal mine roof rating (CMRR) to extended cuts
C. Mark

MAY 1999

35 Mining overview
W. C. Butterm, L. McCartan, D. E. Morse and S.F Sibley

39 Exploration overview
D.R. Wilburn and K. E. Porter

49 Coal overview
F.L. Freme and B. D. Hong

JUNE 1999

56 Mining in a New Era theme of 1999 SME Annual Meeting
Tim O’Neil, Steve Krai and Bill Yernberg

82 Guide for reporting exploration information, mineral resources and mineral reserves—an abstract

85 Cat tests 360-st 797 truck, upgrades wheel loaders

89 1999 JACKLING LECTURE The miner and sustainable development
Patrick M. James

93 Overview of the sulfate-reducing bacteria demonstration project under the mine-waste technology program
M. Canty

100 integrated approach for predicting mining subsidence in hilly terrain
Y. Luo and S. S. Peng

JULY 1999

39 Kennecott Utah Copper smelter modernization

46 Reopening the Bendigo goldfield in Victoria, Australia
Peter Philip

50 History of the Getchell gold mine
Robert C. Horton

57 124,000 attend ConExpo-Con/Agg ’99 in Las Vegas
Steve Krai

AUGUST 1999

17 Design and startup of Cortez Gold Mines' Pipeline Mill
Randy N. Powell
24 Closing the historic Alaska-Juneau Mine
Joseph L. Petrillo and Paul A. Hilbelink

32 Remediating historic mine sites in Colorado
James Dunn, Carol Russell and Art Morrissey

36 Cattle aid reclamation at Robinson Mine in
Nevada

38 Prospectors and developers meeting some
reflections
Bruce Geller

40 Six to be inducted into National Mining Hall of
Fame

49 Mitigation of water contamination at the historic
Ferris-Haggarty Mine, Wyoming
R.W. Reisinger and J. Gusek

54 New P.T. freeport Mine ventilation system-basic
requirements (25 kt/d plan)
F. Calizaya and A. Mulyadi

59 Past and future trends in phosphate use
M.C. Roberts

MINERALS ENGINEERING

MAY 1999

467 An example of innovation from the waste
management industry: deinking flotation cells
J.A. Finch and C.A. Hardie

477 The JKMRC High Bubble Surface Area Flux
Flotation Cell
M.A. Vera, J-P. Franzidis and E.V. Manlapig

485 Applied mineralogical studies on Australian
sand ilmenite concentrate with special reference to
its behaviour in the sulphate process
T. Chernet

497 Interrelation of stratification and passage in the
screening process
M. Soldinger

517 Reduced efficiency curves of industrial
hydrocyclones-an analysis for plant practice
K. Nageswarao

545 Potential use of carbon felt in gold
hydrometallurgy
A. Stavart, C. Leroy and A. van Lierde

559 Continuous ferrous iron biooxidation in flooded
packed bed reactors
A. Mazuelos, R. Romero, L. Palencia, N. Iglesias and F.
Carranza

565 Characterization of an industrial flotation column at
division Andina, Codelco-Chile
J.B. Yianatos, L. Bergh, R.L. 6pez, P. Molinet and
P. Gimenez

571 Evaluating the performance of new collectors on
feed to Nkana Concentrator's flotation circuit
A. N. Mainza, S. Simukanga and L. K. Witika

JUNE 1999

599 A model to relate the flotation rate constant and the
bubble surface area flux in mechanical flotation cells
D. A. Deglon, F. Sawyerr and C. T. O'Connor

609 Enhanced dissolution of minerals: microtopography
and mechanical activation
D. Tromans and J. A. Meech

627 An integrated system for supervision and economic
optimal control of mineral processing plants
C. Munoz and A. Cipriano

645 Effects of cysteine and oxygen on recovery of
cemented gold from leach liquors in a thiourea system
S. Ardiwilaga

655 Interparticle forces, interfacial structure
development and agglomeration of gibbsite particles in
synthetic Bayer liquors
J. Addai-Mensah, C.A. Prestidge and J. Ralston

671 The cell attachment and oxygen consumption of two
strains of Thiobacillus ferrooxidans
M. I. Sampson and R. C. Blake II

687 The leaching behaviour of a nickel concentrate in an
oxidative sulphuric acid solution
R. Bredenhann and C. P. J. Van Vuuren

693 Kinetics of zinc ferrite leaching in caustic media in
the deceleratory period
D. K Xia and C.A. Pickles

JULY 1999

701 Effect of ultrasonic preconditioning of pulp on the
flotation of sulphide ores
C. Aldrich and D. Feng

721 Effect of particle size on flotation performance of
complex sulphide ores

MADENCİLİK/ HAZİRAN - EYLÜL 1999
733 Supervisory control at Salvador flotation columns
L. G. Bergh, J. B. Yiánatos, C. A. Acuna, H. Pérez and F. Lobez

745 Analysis of alkylxanthate collectors on sulphide minerals and flotation products by headspace analysis gas-phase infrared spectroscopy (HAGIS)
A. J. Vreugdenhil, J. A. Finch, I. S. Butler and I. Paquin

757 Interfering ions in the flotation of a phosphate ore in a batch column
R. C. Guimarães and A. E. C. Peres

769 The effect of salinity on the capacity and selectivity of ion exchange resins for gold cyanide
G. C. Lukey, J. S. J. Van Deventer, R. L. Chowdhury and D. C. Shallcross

787 Reductive decomposition of galena (PbS) using Cr (II) ionic species in an aqueous chloride medium for silver (Ag) recovery
F. P. Gudyanga, T. Mahlangu, J. Chiñamba and D. J. Simbi

799 A new magnetic separator and classifier: prototype design
P. A. Augusto and J. P. Martins

809 Fundamental batch mill model identification
P. Radziszewski

827 The application of statistical process control
H. İpek, H. Ankara and H. Özdag

837 A study on the intergrinding of clinker and limestone
S. Tsivilis, N. Voglis and J. Photou

SEPTEMBER 1999

1001 A conceptual model for gold flotation
A. J. Teague, J. S. J. Van Deventer and C. Swaminathan

1021 Pyrite consumption of xanthate in Hellyer base metal sulfide pulps
M. S. Morey, S. R. Grano and J. Ralston

1033 Effect of different collector dose rates on cobalt segregation
A. N. Mainza, S. Simukanga and L. K. Witika

1041 A new flowsheet for processing chromite fines by column flotation and the collector adsorption mechanism
A. Güney, G. Önal and M. S. Çelik

1051 Application of fluidization to obtain washability date
K. P. Galvin and S. J. Pratten

1059 Dense medium separation using a teetered bed separator
K. P. Gálvin, S. J. Pratten and S. K. Nicol

1083 Dephosphorisation of Western Australian iron ore by hydrometallurgical process
C. Y. Cheng, V. N. Misra, J. Clough and R. Mun

MADENCİLİK/ HAZİRAN - EYLÜL 1999
1093 A modified paired t-test for the analysis of plant trials with data autocorrelated in time
T. J. Napier - Munn and D. H. Meyer

1101 The conditions for sampling of particulate materials to be unbiased-investigation using granular flow modelling
G. K. Robinson and P. W. Cleary

1119 Studies on grinding media wear and its effect on flotation of ferruginous phosphate ore
R. J. Despande and K. A. Natarajan

1127 Plant trials with the multi gravity separator for the reduction of graphite

OCTOBER 1999

1147 Quantification of flotation activity by means of excess Gibbs Free energies
J. C. Davidtz

1163 Simultaneous determination of collection zone rate constant and froth zone recovery in a mechanical flotation environment
M. a. Vera, J. P. Franzidis and E. V. Manlapig

1177 The flotation behaviour of chromite with respect to the beneficiation of UG ore.
Q.I. Wesseldijk, M. A. Reuter, D. J. Bradshaw and P. J. Harris

1185 The effect of high intensity conditioning on the flotation of a nickel ore. Part 1: size-by-size analysis
G.Chen, S. Grano, S. Sobieraj and J. Ralston

1201 Enhanced hydrochloric acid leaching of cobalt E. Jackson and K. J. Lloyd

1213 Formation of TiB₂ from rutile by room temperature ball milling
N.J.Welham

1225 Classification and breakage of flocs in hydrocyclones
E. j. RoldanVillasana and R. A. Williams

1245 Industrial monitoring of hydrocyclone operation using electrical resistance tomography

1253 Application of magnetic forces to disk vacuum filtration in the laboratory and plant
J. L. Watson and Z. Li

1263 The use of electrode probes in determinations of filter cake formation and batch filter scale-up
E. S. Tarleton

1275 Upgrading of the reactor waste obtained during borax production from tincal
R. Boncukoğlu, M. M. Kocakerim and H. Ersahan
Alkim Alkali Kimya A.Ş.
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- Hazır ANFO üretilmi
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- Elektrikli kapsüller, emniyetli fitil, infilakli fitil
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