

SÜRELİ YAYINLAR

CIM BULLETIN

DECEMBER 2002

67 Aggregation index and a methodolgy to study the role of magnesium in aggregation of sulphide slurries

E.El-Amomouri, M. Mirnezami, D. Lascelles and J. A. Finch

76 Gas dispersion measurements in floatation machines

C.O.Gomez and J. A. Finch

79 Kiruna mineral processing starts underground-Bulking sorting by LIF

A. Kruukka and H. F. Broicher

85 The development of processmineralogy at Falconbridge Limited, and application to the Raglan Mill

N. O. Lotter, P. J. Whittaker and L. Kormos

93 Approximating diamond drill rod wear

P. Radziszewski

97 Copper in Poland (Technical Note)

F. Habashi

JANUARY 2003

49 Information technology in mining: An overview of the Mining IT User Group

M. G. Lipsett

52 The need for technology standards for mobile equipment in the mining industry

T. Skinner, R. Hall and M. Sahebkar

57 Achieving businbess results through IT: insuring controller performance benefits with web-enabled monitoring at Noranda

D. Shook, R. Khalili, M. Grenier and L Lariviere

78 New technology for hoist conveyance monitoring and analysis

60 The development of an integrate IT system at Albion Sands Energy

L H. Michaud

65 Total systems approach to design for undergound mine mill integration

B. Klein, R. Hall, M. Scoble and M. Morin

72 CERM^amd its contribution to providing sustainable research fort the mining industry

82 Rotating equipment reliability for surface operation Part II: Oil analysis in a mine

G. Nollet and D. Prince

FEBRUARY 2003

39 Enhancements in the interprtation of geochemical data using multivariate methods and digital topography

E. C. Grunsky and B. W. Smee

44 Distinguishing ore types at the Lac des Iles PGE-gold-copper-nickel mine, Ontario: Implications for resource modelling, mining and processing

M. J. Michaud and M. J. Lavigne

48 System Thinking for quality management and continious improvement in mining

M. Vallée

59 Considerations regarding the definition of remotely located cogeneration plants. Part 1

D. Berkeley

64 The Red Dog VIP optimization project. Part A: Rectifying the shortage of flotation capacity

B. Lacouture and G. Hope

INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES

DECEMBER 2002

945 Analysis of shearing of a rock ridge, Y. M. A. Hashash, E. J. Cording and J. Oh

959 Blast vibration damage to underground coal mines from adjacent open-pit blasting

P. K. Singh

975 A Unified Strength criterion for rock material, Mao-Hong Yu, Yue-Wen Zan, Jian Zhao and Mitsutoshi Yoshimine

- 991 Brazilian test: stress field and tensile strength of anisotropic rocks using an analytical solution
J. Claesson and B. Bohloli
- 1005 Determination of the natural stress state in a Brazilian rock mass by back analysing excavation measurements: a case study
J. A. de Mello Franco, J. L. Armelin, J. A. F. Santiago, J. C. F. Telles and W. J. Mansur
- 1035 Elastic wave propagation in and permeability for rocks with multiple parallel fractures
M. S. King
- 1045 The shear strength of planar joints in mudstone
A. J. Geertsema
- JANUARY 2003**
- 3 Anisotropic strength and deformational behavior of Himalayan schists, Pages 3-23
M. H. B. Nasseri, K. S. Rao and T. Ramamurthy
- 25 Constitutive law for the shear strength of rock joints based on three-dimensional surface parameters
G. Grasselli and P. Egger
- 41 A constitutive model for rock interfaces and joints
J. G. Wang, Y. Ichikawa and C. F. Leung
- 55 Estimating the deformation modulus of rock masses: a comparative study
A. Kayabasi, C. Gokceoglu and M. Ercanoglu
- 65 Adverse effects of pore-pressure drainage on stress measurements performed in deep tunnels: an example from the Lower Kihansi hydroelectric power project, Tanzania
T. Dahlø, K. F. Evans, A. Halvorsen and A. Myrvang
- 95 Influence of faulting on a mine shaft—a case study: part I—Background and instrumentation, G. Bruneau, D. B. Tyler, J. Hadjigeorgiou and Y. Potvin
- 113 Influence of faulting on a mine shaft—a case study: part II—Numerical modelling G. Bruneau, M. R. Hudyma, J. Hadjigeorgiou and Y. Potvin
- 127 Sleeve-fracturing limitations for measuring *in situ* stress in an anisotropic stress environment
A. D. Charsley, C. D. Martin and D. R. McCreath
- 137 Error-in-variables for rock failure envelope, O. Zambrano-Mendoza, P. P. Valkö and J. E. Russell
- 145 Fatigue properties of cracked, saturated and frozen sandstone samples under cyclic loading, Ning Li, Ping Zhang, Yunsheng Chen and Gunter Swoboda
- FEBRUARY 2003**
- 151 The Kaiser effect in rocks: principles and stress estimation techniques
A. Lavrov
- 173 Methodology for tunnel and portal support design in mixed limestone, schist and phyllite conditions: a case study in Turkey
M. K. Koçkar and H. Akgün
- 197 Quantifying topography and closure deformation of rock joints
C. C. Xia, Z. Q. Yue, L. G. Tham, C. F. Lee and Z. Q. Sun
- 221 Post-failure behavior of two mine pillars confined with backfill
D. R. Tesarik, J. B. Seymour and T. R. Yanske
- 233 More accurate stress intensity factor derived by finite element analysis for the ISRM suggested rock fracture toughness specimen—CCNBD
Q. Z. Wang, X. M. Jia, S. Q. Kou, Z. X. Zhang and P. -A. Lindqvist
- 243 A chemical damage model of sandstone in acid solution
Li Ning, Zhu Yunming, Su Bo and S. Gunter
- 251 Analysis of coal mine roof fall rate using fuzzy reasoning techniques
D. Deb
- 259 Testing conditions and geomechanical properties influencing the CERCHAR abrasiveness index (CAI) value
R. Plinninger, H. Käsling, K. Thuro and G. Spaun
- 265 Validation of block theory and three-dimensional discontinuous deformation analysis as wedge stability analysis methods
M. R. Yeung, Q. H. Jiang and N. Sun
- 277 Development of a local degradation approach to the modelling of brittle fracture in

heterogeneous rocks: [By Z. Fang and J.P. Harrison, International Journal of Rock Mechanics and Mining Sciences 39 (2002) 443-457]
H. Ozturk

279 Authors' reply
Z. Fang and J. P. Harrison

MINERALS ENGINEERING

DECEMBER 2002

1027 Fracture toughness and surface energies of minerals: theoretical estimates for oxides, sulphides, silicates and halides
D. Tromans and J. A. Meech

1043 Inferential measurement of SAG mill parameters II: state estimation
T. A. Apelt, S. P. Asprey and N. F. Thornhill

1055 Inferential measurement of SAG mill parameters III: inferential models
T. A. Apelt, S. P. Asprey and N. F. Thornhill

1073 Exploring total media wear
P. Radziszewski

1089 Evaluating the Nakajima et al. model for rectangular-aperture screens
A. Dehghani, A. J. Monhemius and R. J. Gochin

1095 Application of neural networks to predict locked cycle flotation test results
E. C. Çilek

1105 Effect of ultrasonic treatment on zinc removal from hydroxide precipitates by dissolved air flotation
B. C. Qi and C. Aldrich

1113 The influence of the oxidation state of pyrite and arsenopyrite on the flotation of an auriferous sulphide ore
M. B. M. Monte, A. J. B. Dutra, C. R. F. Albuquerque, Jr., L A. Tondo and F. F. Lins

1121 Magnetic properties of ilmenite, hematite and oil sand minerals after roasting
Z. Cui, Q. Liu and T. H. Etsell

1131 Geopolymerisation of multiple minerals, Hua Xu and Jannie S. J. Van Deventer

1141 Inhibition of acid rock drainage from uranium ore waste using a conventional neutralization and precipitation treatment
Y. N. Mata, F. Gonzalez, A. Ballester, M. L. Blázquez and J. A. Muñoz

1151 A study on the chemical stability of the Versatic 10-Acorga CLX50 synergistic system, C. Y. Cheng, K. R. Barnard and M. G. Davies

1163 The use of ion exchange resins for the treatment of cyanidation tailings part 1—process development of selective base metal elution, K. Fernando, T. Tran, S. Laing and M. J. Kim

1173 A kinetic and electrochemical study of the ammonia cyanide process for leaching gold in solutions containing copper
M. I. Jeffrey, L. Linda, P. L. Breuer and C. K. Chu

1181 Effect of solids on viability of acidophilic bacteria
H. Deveci

1191 Purification of north Brazilian kaolin by selective flocculation
F. Larroyd, C. O. Petter and C. H. Sampaio

1193 A preliminary research on acid pressure leaching of pyritic copper ore in Kure Copper Mine, Turkey
A. Akcii

1199 Influence of a jigging action on the gravity separation achieved in a teetered bed separator, K. P. Galvin, S. J. Pratten, N. Lambert, A. M. Callen and J. Lui

JANUARY 2003

1 Liner wear in jaw crushers
M. Lindqvist and C. M. Evertsson

13 Ore characterisation for—and simulation of—primary autogenous grinding
R. Hahne, B. I. Pålsson and P. O. Samskog

21 Copper catalysed oxidation of thiosulfate by oxygen in gold leach solutions
P. L. Breuer and M. I. Jeffrey

31 Iron recovery from sulphate leach liquors in zinc hydrometallurgy
M. R. C. Ismael and J. M. R. Carvalho

41 Study on the recovery of zinc from Moore cake: a biotechnological approach
A. Gupta, K. Birendra and R. Mishra

- 45 Arsenic leaching by Na₂S to decontaminate tailings coming from colemanite processing, M. Delfini, M. Ferrini, A. Manni, P. Massacci and L. Piga
- 51 Bioleaching of copper ore flotation concentrates Z. Sadowski, E. Jazdzyk and H. Karas
- 55 Optimizing the design of flotation circuits: an economic approach M. H. Abu-Ali and S. A. Abdel Sabour
- 59 Coagulation and flocculation characteristics of talc by different flocculants in the presence of cations A. Ozkan
- 95 "First application of cyanidation process in Turkish gold mining and its environmental impacts" A. Akcil
- 135 Interference of coarse and fine particles of different shape in mixed porous beds and filter cakes M. Mota, J. A. Teixeira, W. R. Bowen and A. Yelshin
- 145 Fluid flow in thickener feedwell models, R. B. White, I. D. Sutalo and T. Nguyen
- 151 On-line moisture determination of ore concentrates 'a review of traditional methods and introduction of a novel solution' P. A. Cancilla, P. Barrette and F. Rosenblum
- 165 Automatic pressure filtration in mining and metallurgy I. Townsend

INDUSTRIAL MINERALS

FEBRUARY 2003

- 75 Solid-liquid separation equipment selection and modelling R. G. Holdich
- 85 Software for the design and simulation of gravity thickeners P. Garrido, R. Burgos, F. Concha and R. Bürger
- 93 Flow visualisation and computational prediction in thickener rake models I. D. Sutalo, D. A. Paterson and M. Rudman
- 103 Historical use and future development of chemicals for solid-liquid separation in the mineral processing industry M.J. Pearse
- 109 The importance of flocculant choice with consideration to mixing energy to achieve efficient solid/liquid separation S. Weir and G. M. Moody
- 115 Hydrocyclones in dewatering circuits B. Firth
- 121 Clarification by slotted surface microfilters, R. G. Holdich, I. W. Cumming, S. Kosvintsev, A. J. Bromley and G. Stefanini
- 129 Sedimentation of clay in ultrasonic medium, Güven Önal, Mustafa Özer and Fatma Arslan

DECEMBER 2002

- 22 Specialities shine in SiC market
- 32 Primed for minerals
- 36 Fillers in the fast lane
- 40 The state of flux
- 52 A new direction for magnetic separation
- 58 The story of the blues
- 61 Minerals Inspection in China

JANUARY 2003

- 24 REgeneration in autocatalysts
- 34 Sink or swim
- 40 Ti-ming it right
- 46 Construction chemicals
- 58 Bulking up
- 62 Clear winners- Advances in pigment and filler dewatering

FEBRUARY 2

- 24 Name that dü
34 Winds of change
42 Swell times ahead?
46 Driven by dynamic ceramics
52 French ceramics market
61 Growing opportunities
66 Performing in overdrive
69 Travancore turns to sulphate TiO₂

MINING ENGINEERING**DECEMBER 2002**

- 17 Raw materials and technology fuel U.S. economic growth
Thomas D. Kelly
22 Cresson Mine completes two-year expansion
William R. Yernberg
24 Data and monitoring systems improve pit operations
Eduardo Nebot and Greg Sheppard
27 Missouri-Rolla's online program gains popularity
Tad S. Golosinski and R. Larry Grayson
31 Invensys Showcase highlights process control technologies
Steve Krai

TECHNICAL

- 33 Pilot plant demonstration of the Platsol process for the treatment of the NorthMet copper-nickel-PGM deposit
C.J. Ferron, C.A. Fleming, P.T. O'Kane and D. Dreisinger
40 Active proximity warning system for surface and underground mining applications
W. H. Schiffba

JANUARY 2003

- 17 New miner training for the 21st century Daniel H. McClain
22 Controlling conveyor dust before it becomes a problem
Neil F. Archer
24 TECHNOLOGY NEWS: Using satellite technology to find precious metals Beverly Cramp
29 Cincinnati features aggregates and industrial minerals programming

TECHNICAL PAPERS

- 33 U.S. Geological Survey resource assessment of selected Tertiary coal zones in Wyoming, Montana and North Dakota D.J. Nichols and M.S. Ellis

- 39 Profile of Ghana's mining industry K. Grubaugh

- 45 Leica Dozer 2000 at the San Miguel lignite mine: the uses of GPS grade control in surface mining M. Heger

FEBRUARY 2003

- 15 Arizona copper industry continues to face challenges
William R. Yernberg
17 Plant design and practice conference attracts mineral processing specialists
William R. Yernberg

- 22 Drive options for belt and apron feeders
Laszlo Toth

TECHNICAL PAPERS

- 25 New approaches to mine-face ventilation
A. Wala, J. Jacob, J. Brown and G. Huang
31 In situ, anaerobic, biological immobilization of uranium, molybdenum and selenium in an alluvial aquifer
B.N. Nelson, R. Cellan, T. Mudder, J. Whitlock and R. Wästerland

- 37 High-altitude, passive-water-treatment system design and construction for leach-pad effluent
K. Whiting, R. Huffsmith, R. Olsen and D. Adams

