

Andrieux, P., and J. Hadjigeorgiou. “The Destressability Index Methodology for the Assessment of the Likelihood of Success of a Large-Scale Confined Destress Blast in an Underground Mine Pillar,” *Int. J. Rock Mech. Min. Sci.*, **45**(3), 407-421 (2008).

Andrieux, P. P., and J. Hadjigeorgiou. “Guide de conception pour des sautages confinés à grande échelle de relaxation des contraintes dans des piliers de mines (Design Guidelines for Large-Scale Confined Destress Blasts in Mine Pillars),” *Revue SEQ*, **17**(1), 10-18 (April 2008).

Andrieux, P. P., M. R. Hudyma, C. P. O’Connor, H. Li, L. Cotesta and R. K. Brummer. “Calibration of Large-Scale Three-Dimensional Non-Linear Numerical Models of Underground Mines Using Microseismic Data,” in *Continuum and Distinct Element Numerical Modeling in Geo-Engineering (Proceedings, 1st International FLAC/DEM Symposium, Minneapolis, August 2008)*, Paper No. 07-04, pp. 343-350. R. Hart et al., Eds. Minneapolis: Itasca Consulting Group, Inc., 2008.

Brummer, R. K., and P. P. Andrieux. “Risk: Quantitative Decision Making Under Technical Uncertainty – Evaluating Probability of Occurrence and Costs of Failures,” in *Proceedings, Third International Seminar on Strategic vs. Tactical Approaches in Mining (Quebec City, Quebec, Canada, September 2008)*, pp. 173-183. J. Hadjigeorgiou, Ed. Quebec: Laval University, 2008.

Andrieux, P. P., R. K. Brummer and H. Li and C. P. O’Connor. “Elastic vs. Inelastic Numerical Modelling of Deep and Highly Stressed Mining Fronts,” in *Deep Mining 07 (Fourth International Seminar on Deep and High Stress Mining, November 2007, Perth, WA, Australia)*, pp. 51-57. Y. Potvin, Ed. Perth: Australian Centre for Geomechanics, 2007.

Andrieux, P. P., J. Hadjigeorgiou and A. Sampson-Forsythe. “The Destressability Index for the Design of Large-Scale Choked Destress Blasts in Mine Pillars: Application to the Fraser Mine 42-1-080 Destress Blast,” in *Proceedings, Third International Seminar on Deep and High Stress Mining (Quebec City, Quebec, Canada, October 2006)*, 12 pp. Reprinted in *Challenges in Deep and High Stress Mining*, pp. 487-493. Y. Potvin et al., Eds. Perth: Australian Centre for Geomechanics, 2007.

Simsen, B. P., P. P. Andrieux, F. Langevin, T. Parrott and P. Turcotte. “Field Behaviour and Failure Modes of Modified Conebolts at the Craig, LaRonde and Brunswick Mines in Canada,” in *Proceedings, Third International Seminar on Deep and High Stress Mining (Quebec City, Quebec, Canada, October 2006)*, 13 pp. Reprinted in *Challenges in Deep and High Stress Mining*, pp. 347-354. Y. Potvin et al., Eds. Perth: Australian Centre for Geomechanics, 2007.

Andrieux, P. P., and R. K. Brummer. “Theoretical and Practical Considerations on the Performance of Various Shotcrete Applications for Ground Support in Mines,” in *Proceedings, 20th Colloquium on Ground Control of the Quebec Mining Association (Val d’Or, Quebec, Canada, March 2005)*.

Zhu, H., P. P. Andrieux and H. Zhong. “Numerical Methods and Applications for Jointed Rock Masses — Part 2: Applications in Engineering Practice,” *Chinese J. of Rock Mech. and Rock Eng.*, **24**(1), pp. 3612-3618 (2005).

Doucet, C., J. Gauthier, P. P. Andrieux and C. P. O’Connor. “Extraction du pilier de sole du niveau 680 – Mine Louvicourt (680 Level Sill Pillar Extraction – Louvicourt Mine),” in *Proceedings, 20th Colloquium on Ground Control of the Quebec Mining Association (Val d’Or, Quebec, Canada, March 2005)*.

Andrieux, P. P., H. Zhu, D. Labrie, C. Doucet, S. Lampron and D. Fleury. “Determination and Validation of the Rock Mass Post-Peak Mechanical Properties for a 3DEC Strain-Softening Model of the 680 Sill Pillar at Louvicourt Mine,” in *Numerical Modeling of Discrete Materials in Geotechnical Engineering, Civil Engineering and Earth Science (Proceedings, First International UDEC/3DEC Symposium, Bochum, Germany, September 2004)*, pp. 121 to 127. H. Konietzky, Ed. Lisse: Balkema, 2004.

O’Connor, C. P., P. P. Andrieux, C. Pritchard and B. P. Simser. “Numerical Modelling With 3DEC and Risk Assessment for a Geometrically Complex and Highly Stressed Sill Pillar at Onaping Mine,” in *Numerical Modeling of Discrete Materials in Geotechnical Engineering, Civil Engineering and Earth Science (Proceedings, First International UDEC/3DEC Symposium, Bochum, Germany, September 2004)*, pp. 89-94. H. Konietzky, Ed. Lisse: Balkema, 2004.

Zhu, H., R. K. Brummer and P. P. Andrieux. “Numerical Methods and Applications for Jointed Rock Masses – Part 1: Approaches and Discussion,” *Chinese J. of Rock Mech. and Rock Eng.*, **23**(20), pp. 3444-3449, (2004).

Andrieux, P. P., J. Hadjigeorgiou and R. K. Brummer. “A Rock Engineering Systems Approach to Destress Rock Blasting,” in *Proceedings, Second International Seminar on Deep and High Stress Mining (Johannesburg, Republic of South Africa, February 2004)*, pp. 277-291. Symposium Series S37. Johannesburg: SAIM, 2004. Reprinted in *Challenges in Deep and High Stress Mining*, pp. 479-486. Y. Potvin et al., Eds. Perth: Australian Centre for Geomechanics, 2007.

Andrieux, P. P., R. K. Brummer, Q. Liu, A. Mortazavi and B. P. Simser. “Large-Scale Panel Destress Blast at Brunswick Mine,” *CIM Bulletin*, **96**(1075), 78-87 (November/December 2003).

Andrieux, P., R. K. Brummer, A. Mortazavi, B. P. Simser and P. George. “FLAC Numerical Simulations of Tunneling Through Paste Backfill at Brunswick Mine,” in *FLAC and Numerical Modeling in Geomechanics – 2003 (Proceedings, 3rd International FLAC Symposium, Sudbury, Ontario, Canada, October 2003)*, pp. 197-204. R. Brummer et al., Eds. Lisse: Balkema, 2003.

Zhu, H., and P. P. Andrieux. “FISH Functions for FLAC^{3D} Analyses of Irregular Narrow Vein Mining,” in *FLAC and Numerical Modeling in Geomechanics – 2003 (Proceedings, 3rd International FLAC Symposium, Sudbury, Ontario, Canada, October 2003)*, pp. 241-247. R. Brummer et al., Eds. Lisse: Balkema, 2003.

Brummer, R. K., P. P. Andrieux and C. P. O’Connor. “Stability Analyses of Undermined Sill Mats for Base Metal Mining,” in *FLAC and Numerical Modeling in Geomechanics – 2003 (Proceedings, 3rd International FLAC Symposium, Sudbury, Ontario, Canada, October 2003)*, pp. 189-195. R. Brummer et al., Eds. Lisse: Balkema, 2003.

O’Connor, C. P., R. K. Brummer, P. P. Andrieux, R. Émond and B. McLaughlin. “FLAC^{3D} Numerical Simulations of Deep Mining at Laronde Mine,” in *FLAC and Numerical Modeling in Geomechanics – 2003 (Proceedings, 3rd International FLAC Symposium, Sudbury, Ontario, Canada, October 2003)*, pp. 221-231. R. Brummer et al., Eds. Lisse: Balkema, 2003.

Brummer, R. K., P. P. Andrieux, C. Detournay and R. Hart, Eds. *FLAC and Numerical Modeling in Geomechanics – 2003 (Proceedings, 3rd International FLAC Symposium, Sudbury, Ontario, Canada, October 2003)*. Lisse: Balkema, 2003.

Andrieux, P. P., J. Hadjigeorgiou and R. K. Brummer. “Rock Engineering Systems and Destress Rock Blasting,” in *Proceedings, 105th AGM of the CIM (Montreal, Quebec, Canada, May 2003)*.

Brummer, R. K., and P. P. Andrieux. “A Design Methodology for Destress Blasting,” in *NARMS–TAC 2002: Mining and Tunnelling Innovation and Opportunity*, Vol. 1, pp. 165-172. R. Hammah et al., Eds. Toronto: University of Toronto Press, 2002.

Pierce, M. E., D. Potyondy, P. P. Andrieux and J.-S. Lessard. “The Use of the Particle Flow Code (*PFC^{2D}*) to Assess the Stability of Undercut Rockfill at Brunswick Mine,” in *NARMS–TAC 2002: Mining and Tunnelling Innovation and Opportunity*, Vol. 1, pp. 173-180. R. Hammah et al., Eds. Toronto: University of Toronto Press, 2002.

Ruest, M. R., P. P. Andrieux, A. Sampson-Forsythe and C. Pritchard. “The Design of a Backpacked Tunnel Against Dynamic Loading,” in *NARMS–TAC 2002: Mining and Tunnelling Innovation and Opportunity*, Vol. 1, pp. 211-218. R. Hammah et al., Eds. Toronto: University of Toronto Press, 2002.

Simser, B. P., P. P. Andrieux and D. Gaudreau. “Rockburst Support at Noranda’s Brunswick Mine,” in *NARMS–TAC 2002: Mining and Tunnelling Innovation and Opportunity*, Vol. 1, pp. 805-813. R. Hammah et al., Eds. Toronto: University of Toronto Press, 2002.

Simser, B. P., P. P. Andrieux, V. Falmagne, A. Coulson and M. Grenon. “The Rock Mechanics Design for a 352,800 Tonne Mass-Blast at the Brunswick Mine, Bathurst, New Brunswick,” in *NARMS–TAC 2002: Mining and Tunnelling Innovation and Opportunity*, Vol. 1, pp. 815-823. R. Hammah et al., Eds. Toronto: University of Toronto Press, 2002.

Andrieux, P. P., and J. Hadjigeorgiou. “The Potential Application of Rock Engineering Systems to Rock Blasting,” in *Proceedings, 10⁴th AGM of the CIM (Vancouver, B.C., Canada, April 2002)*.

Andrieux, P. P., and R. K. Brummer. “Tirs confinés à grande échelle de relâchement des contraintes dans des piliers de mines (Choked Large-Scale Destress Blasts in Mine Pillars),” in *Proceedings, 17th Colloquium on Ground Control of the Quebec Mining Association (Val d’Or, Quebec, Canada, March 2002)*.

Andrieux, P. P., and J. Hadjigeorgiou. “Rock Engineering Systems and Rock Blasting,” in *Proceedings of the 24th Study Sessions on Blasting Techniques, SEEQ (Quebec City, Quebec, Canada, November 2001)*.

Ruest, M. R., P. P. Andrieux and B. P. Simser. “Design of a Backpacked Tunnel Liner Using *FLAC*,” in *FLAC and Numerical Modeling in Geomechanics – 2001 (Proceedings, 2nd International FLAC Conference, Lyon, France, October 2001)*, pp. 403-411. D. Billaux et al., Eds. Lisse: Balkema, 2001.

Andrieux, P. P., M. P. Board, R. K. Brummer, A. Mortazavi and M. E. Pierce. “Elastic vs. Inelastic Numerical Stress Modelling — Practical Considerations and Issues,” in *Proceedings, 16th Quebec Mining Association Ground Control Colloquium (Val d’Or, Quebec, Canada, March 2001)*.

Andrieux, P. P., and B. P. Simser. “Ground-Stability-Based Mine Design Guidelines at Brunswick Mine,” in *Underground Mining Methods: Engineering Fundamentals and International Case Studies*, pp. 207-214. W. A. Hustrulid and R. L. Bullock, Eds. Littleton, Colorado: SME, 2001.

Simser, B. P., and P. P. Andrieux. “Open Stope Mining Strategies at Brunswick Mine,” in *MassMin 2000 Proceedings (Brisbane, Queensland, Australia, October-November 2000)*, pp. 675-683. Carlton, Victoria, Australia: AusIMM, 2000.

Lessard, J.-S., A. Proulx and P. P. Andrieux. "Récents développements dans l'utilisation du béton projeté à la mine Brunswick (Recent Developments in the Usage of Shotcrete at Brunswick Mine)," in *Proceedings, 15th Colloquium on Ground Control of the Quebec Mining Association (Val d'Or, Quebec, Canada, March 2000)*.

Hadjigeorgiou, J., F. Habiyaremye, J.-S. Lessard and P. P. Andrieux. "An Investigation into the Behaviour of Shotcrete Pillars," in *Rock Support and Reinforcement Practice in Mining (Proceedings, International Symposium on Rock Support and Reinforcement Practice in Mining, Kalgoorlie, Western Australia, March 1999)*, pp. 183-192. Rotterdam: Balkema, 1999.

Simser, B. P., and P. P. Andrieux. "Seismic Source Mechanisms at Brunswick Mine," in *Proceedings, 14th CIM Mine Operators' Conference (Bathurst, New Brunswick, Canada, February 1999)*.

Simser, B. P., P. P. Andrieux, D. Peterson, T. MacDonald and J. Alcott. "Advanced Monitoring and Analysis of Microseismic Activity as an Aid to Mining at Brunswick Mine," *Int. J. Rock Mech. & Min. Sci.*, Special Issue (*Proceedings, NARMS'98, 3rd North American Rock Mechanics Symposium, Cancun, Mexico, June/July 1998*), 35(4-5), Paper No. 073 (1998).

Milne, D., D. Gaudreau, S. Nickson, B. P. Simser and P. P. Andrieux. "Back Design in Rockburst-Prone Areas," in *Proceedings, 100th AGM of the CIM (Montreal, Quebec, Canada, May 1998)*.

Lessard, J.-S., and P. P. Andrieux. "Les piliers de béton projeté à la mine Brunswick (Shotcrete Pillars at Brunswick Mine)," in *Proceedings, 13th Colloquium on Ground Control of the Quebec Mining Association (Val d'Or, Quebec, Canada, March 1998)*.

Liu, Q., H. Tran, D. Counter and P. P. Andrieux. "A Case Study of Blast Damage Evaluation in Open Stope Mining at Kidd Creek Mines," in *Proceedings, 24th Annual ISEE Conference on Explosives and Blasting Technique (New Orleans, Louisiana, February 1998)*.

Andrieux, P. P., and K. Rogers. "Controlled Blasting for Improved Open Stope Wall Stability at Brunswick Mine," in *Proceedings, CIM 13th Mine Operators' Conference (Sudbury, Ontario, Canada, February 1997)*.

Andrieux, P. P., and L. Joncas. "Monitoring des vibrations de tirs et de l'activité microséismique à Mines Silidor (Blast Vibration and Microseismic Monitoring at Mines Silidor)," in *Proceedings, 18th Study Sessions on Blasting Techniques, SEEQ (Quebec City, Quebec, Canada, November 1995)*.

Andrieux, P. P., and J. Heilig. "Near-Field Blast Vibration Monitoring — Practical Considerations and Issues," *J. Explosives Engineers*, 12(6), 24-32 (May-June 1995).

Andrieux, P. P., C. McKenzie, J. Heilig and A. Drolet. "The Impact of Blasting on Excavation Design — A Geomechanics Approach," in *Proceedings, 20th Annual ISEE Conference on Explosives and Blasting Technique (Austin, Texas, January 1994)*.

Andrieux, P. P., V. Mercier and A. Drolet. "BlastCAD: The Blast Layout Application of Noranda's Computer-Aided Three-Dimensional Mine Design System," in *Proceedings, 24th International Symposium on the Application of Computers and Operations Research in the Mineral Industries — APCOM XXIV (Montreal, Quebec, Canada, October 1993)*.

Favreau, P., and P. P. Andrieux. "BlastCAD, Noranda' Three-Dimensional Computer-Aided Underground Blast Design System," *CIM Bull.*, 86(967), 62-68 (February 1993).

McKenzie, C., P. P. Andrieux and D. Sprott. “The Significance of Amplitude in Blast Vibration Monitoring,” in *Proceedings, 94th AGM of the CIM (Montreal, Quebec, Canada, April 1992)*.

Drolet, A., and P. P. Andrieux. “Monitoring des sautages: application à la production en souterrain (Blast Monitoring: Application to Underground Production),” in *Proceedings, 14th Study Sessions on Blasting Techniques, SEEQ (Quebec City, Quebec, Canada, October 1991)*.

Sprott, D., and P. P. Andrieux. “Charge Weight per Delay and Underground Blast Vibrations,” in *Proceedings, 93rd AGM of the CIM (Vancouver, B.C., Canada, April 1991)*.

Andrieux, P. P., and D. Sprott. “BlastCAD — Three-Dimensional Underground Blast Design Software,” in *Proceedings, 17th Annual ISEE Conference on Explosives and Blasting Technique (Las Vegas, Nevada, February 1991)*.

Andrieux, P. P., J. Boaro and D. Sprott. “A Field Investigation of Ring Blasting Performance,” in *Proceedings, 92nd AGM of the CIM (Ottawa, Ontario, Canada, May 1990)*.

Andrieux, P. P. “Design de sautage assisté par ordinateur (Computer-Aided Blast Design),” in *Proceedings, Study Sessions on the Applications of Computers in the Mining Industry (Rouyn-Noranda, Quebec, Canada, November 1989)*.