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LOTTER  
INTERNATIONAL  
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Processing

## Publications by Norman O. Lotter

### Conference Papers

1. **Lotter, N.O., Bradshaw, D.J., and Barnes, A.R., 2015.** Flotation of the Major Copper Sulphides – an Electrochemical Perspective, proc. MEI Flotation '15, Cape Town, Nov 2015 (preprint).
2. **Lotter, N.O., Whiteman, E., and Bradshaw, D.J., 2013,** Modern Practice of Laboratory Flotation Testing for Flowsheet Development, proc. Flotation '13, MEI, Cape Town, November 2013.
3. **Lotter, N.O., Oliveira, J.F., Hannaford, A.L., Amos, S.R., and Broughton, D., 2013,** Flowsheet Development for the Hypogene Geomet Unit in the Ivanplats Kamoia Copper Project, proc. Canadian Mineral Processors, Ottawa, January 2013, pp. 71-85.
4. **Lotter, N.O., Oliveira, J.F., and Hannaford, A.L., 2012.** The Influence of Quantitative Mineralogy on Flowsheet Development at the Ivanplats Limited Kamoia Project, proc. MEI "Process Mineralogy '12", Cape Town, November 2012.
5. **Lotter, N.O., Monnapula, R., Oliveira, J., Fragomeni, D., and Bradshaw, D.J.,** *Formulation and Plant Trial of a Mixed Collector for Eland Platinum*, proc. Canadian Mineral Processors, Ottawa, January 2011, Paper No. 10, pp. 161-183.
6. **Lotter, N.O.,** *Modern Flowsheeting Technology with Process Mineralogy*, CIM Distinguished Lecture, proc. Canadian Mineral Processors, Ottawa, January 2011.
7. **Lotter, N.O., Oliveira, J., Monnapula, R., and Bradshaw, D.J.,** *The Role of Mineralogy in the Formulation and Use of Mixed Collectors in Sulphide Flotation: Eland Platinum*, proc. Process Mineralogy '10, MEI, Cape Town, November 2010.
8. **Lotter, N.O.,** *Modern Process Mineralogy: an Integrated Multi-Disciplined Approach to Flowsheeting*, Invited Keynote Lecture, MEI Process Mineralogy '10, Cape Town, November 2010.
9. **Lotter, N.O., Kormos, L.J., Oliveira, J., and Whiteman, E.,** *Modern Process Mineralogy – Two Case Studies*, proc. MEI "Nickel '10", Falmouth, Cornwall, U.K., June 2010.
10. **Lotter, N.O.,** *Stratified Sampling of Drill-Core*, proc. Canadian Mineral Processors, Ottawa, January 2010, Paper No. 11, pp. 163-179.
11. **Deng, T., Yu, S., Lotter, N.O., and Di Feo, D.,** *Laboratory Testwork of Mixed Xanthates for Raglan Ore*, proc. Canadian Mineral Processors, Ottawa, January 2010, Paper No. 16, pp. 253-268.
12. **Lotter, N.O., and Bradshaw, D.J.,** *The Formulation and Use of Mixed Collectors in Sulfide Flotation*, proc. MEI Conference "Flotation '09", Cape Town, November 2009.
13. **Lotter, N.O., and Fragomeni, D.,** *High-Confidence Flotation Testing at Xstrata Process Support*, SME Annual Meeting and Exhibit, Denver, February 2009, Preprint 09-026.
14. **Lotter, N.O., Comeau, G., Kormos, L.J., Fragomeni, D., and Di Feo, A.,** *Plant Scale Trial of Isobutyl Xanthate at Raglan Concentrator Using Reference Distributions*, Proc. Canadian Mineral Processors, Ottawa, January 2009, Paper No. 6, pp. 79-105.
15. **Lotter, N.O., Bradshaw, D.J., Kormos, L.J., Becker, M., and Parolis, L.A.,** *A Discussion Of The*

*Occurrence And Undesirable Flotation Behaviour Of Orthopyroxene And Talc In The Processing Of Mafic Deposits*, Proc. Flotation 07, MEI, Cape Town, November 2007.

16. **Lotter, N.O., and Laplante, A.R., 2006**, *The Campaign Survey Model – a Case Study at Raglan Mine, Québec*, Proc. MEI Conference on Quantitative Mineralogy, Brisbane, July 2006.
17. **Lotter, N.O., and Laplante, A.R., 2005**, *Statistical Benchmark Surveying of Production Concentrators*, Minerals Engineering Conference: Processing of Nickel Ores and Concentrates, Cape Town, November 2005.
18. **Lotter, N.O., and Laplante, A.R., 2005**, *Residual Effects of Lognormality in Concentrator Data*, Paper No. 20, Canadian Mineral Processors' Conference, Ottawa, January 2005.
19. **Baum, W., Lotter, N.O., and Whittaker, P.J., 2004**, *Process Mineralogy – a New Generation of Ore Characterization and Plant Optimization*, SME Annual Meeting and Exhibit, Denver, Preprint, February 2004.
20. **Lotter, N.O., Kowal, D.L., Tuzun, M.A., Whittaker, P.J., and Kormos, L., Sampling and Flotation Testing of Sudbury Basin Drill Core for Process Mineralogy Modelling, SME Preprint 03-023, Cincinnati, Ohio, February 2003.**
21. **Lotter, N.O., Whittaker, P.J., Kormos, L., Stickling, J.S., and Wilkie, G.J., The Development of Process Mineralogy at Falconbridge Limited, and Application to the Raglan Mill, Canadian Mineral Processors' Conference, Ottawa, Paper No. 1, January 2002.**
22. **Lotter, N.O., O'Connor, C.T., and Clark, I., The Evaluation Bias Errors of the Platinum-Group Elements (PGE) Associated with Gravimetric Fire-Assaying Practice in Rustenburg Section of the Bushveld Complex, South Africa, SME Annual Meeting and Exhibit, February 2000.**
23. **Lotter N.O., A Quality Control Model for the Development of High-Confidence Flotation Test Data, SME Annual Meeting and Exhibit, Preprint 95-40, February 1995.**
24. **Lotter N.O., and Munro H.C., The Development of High-Confidence Flotation Test Data at Rustenburg Platinum Mines Limited, J. Mine Met. Mgrs. Assoc., 1/94, pp. 29-50, October 1994.**

## Refereed Journals

1. **Lotter, N.O., Barnes, A.R., and Bradshaw, D.J., 2016.** Classification of the Major Copper Sulphides into Semiconductor Types, and Associated Flotation Characteristics, Minerals Engineering, 96-97, (2016), pp. 177-184.
2. **Lotter, N.O., Whiteman, E., and Bradshaw, D.J., 2014.** Modern Practice of Laboratory Flotation Testing for Flowsheet Development, Minerals Engineering, 66-68, (2014), pp. 2-12.
3. **Lotter, N.O., Oliveira, J.F., Hannaford, A.L., and Amos, S.R., 2013,** *Flowsheet Development for the Kamo Project – a Case Study*, Minerals Engineering (in press), 2013.
4. **Lotter, N.O.** *Modern Process Mineralogy – an Integrated Multi-Disciplined Approach to Flowsheeting*, Minerals Engineering, 24, (2011), pp. 1229-1237.
5. **Lotter, N.O., Kormos, L.J., Oliveira, J., Fragomeni, D., and Whiteman, E., Modern Process Mineralogy – Two Case Studies, Minerals Engineering, 24, (2011), pp. 638-650.**
6. **Lotter, N.O., and Bradshaw, D.J., The Formulation and Use of Mixed Collectors for Sulphide Flotation, Minerals Engineering, 23, (2010), pp. 945-951.**
7. **Lotter, N.O., Comeau, G., Kormos, L.J., Fragomeni, D., and Di Feo, A., Plant Scale Trial of Isobutyl Xanthate at Raglan Concentrator Using Reference Distributions, Minerals Engineering, 23, (2010), pp. 567-577.**
8. **Lotter, N.O., and Fragomeni, D., High-Confidence Flotation Testing at Xstrata Process Support, SME, Minerals and Metallurgical Processing Journal, February 2010, Paper MMP-09-011, 27, 1, pp. 47-54.**
9. **Lotter, N.O., Bradshaw, D.J., Kormos, L.J., Becker, M., and Parolis, L.A.S., A Discussion on the Occurrence and Undesirable Flotation Behaviour of Orthopyroxene and Talc in the Processing of Ultramafic Deposits, Minerals Engineering, Special Edition, Flotation 07, 21, (2008), pp. 905-912.**

10. **Lotter, N.O.**, *Distribution Modelling of Nickel Assay Grades in Final Tailings at Raglan, Québec*, Minerals Engineering, 20, (2007), pp. 1067-1074.
11. **Lotter, N.O., and Laplante, A.R.**, *The Campaign Survey Model: a Case Study at the Raglan Mine, Québec*, Minerals Engineering, 20, (2007), pp. 480-486.
12. **Lotter, N.O., and Laplante, A.R.**, *Statistical Benchmark Surveying of Production Concentrators*, Minerals Engineering, 20, (2007), pp. 793-801.
13. **Lotter, N.O., Kowal, D.L., Tuzun, M.A., Whittaker, P.J., and Kormos, L.J.**, *Sampling and Flotation Testing of Sudbury Basin Drill Core for Process Mineralogy Modelling*, Minerals Engineering, 16, (2003), pp. 857-864.
14. **Lotter, N.O., Whittaker, P.J., Kormos, L., Stickling, J.S., and Wilkie, G.J.**, *The Development of Process Mineralogy at Falconbridge Limited, and Application to the Raglan Mill*, CIM Bulletin, vol. 95, no. 1066, pp. 85-92, November/December 2002.
15. **Lotter N.O.**, *Review of Evaluation Models for the Representative Sampling of Ore*, J S Afr. Inst. Min. Metall., 95, (4), pp. 149-155, 1995.

### Chapters in Books

**Modern Process Mineralogy, 2012**, Adair, B.J., Bradshaw, D.J., Wightman, E., and Becker, M., (eds)., in press:

1. Sampling
2. Raglan – a Case Study

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