

## 2010 OSTRF Publications

1. Beier, N. and Segó, D. 2010. Innovations in Tailings Management. CIM Magazine Vol 5:6, Sep/Oct 2010, pp 80-81.
2. Cai, J., Hall, N.A., Elenany, M., Zhu, D.Z., Rajaratnam, N. (2010), "Sand jets in air", ASCE Journal of Engineering Mechanics, Vol. **136**(9), 1181-1186.
3. Hall, N.A., Elenany, M., Zhu, D.Z., Rajaratnam, N. (2010), "Experimental study of sand and slurry jets in water", ASCE Journal of Hydraulic Engineering, Vol. **136**(10), 727-738.
4. Sorta, A.R. and Segó, D.C., 2010. Segregation related to centrifuge modeling of oil sands tailings. GEO2010, Proceedings of the 63th Canadian Geotechnical Conference and 6th Canadian Permafrost Conference, September 12-15, 2010 Calgary, AB (CD) pp: 656-664.
5. Wu, S., Segó, D.C. and Naeth, A. 2010. Evapotranspiration dewatering effect on CT deposits by grasses. GEO2010, Proceedings of the 63th Canadian Geotechnical Conference and 6th Canadian Permafrost Conference, September 12-15, 2010 Calgary, AB (CD) pp: 1371-1378.
6. Ifill, R.O., Beier, N.A., Zhang, C. and Segó, D. (2010). Crossflow Filtration: An option towards Compliance with Directive 074. Geotechnical News, Vol **28**:2, June 2010. pp 30-33.
7. Small, C.C., Hashisho, Z., and Ulrich, A.C. The Use of Activated and Produced Oil Sands Coke for the Potential Treatment of Process-Affected Mine Tailings Water. 103rd Air and Waste Management Association (AWMA) Annual Conference and Exhibition, Calgary, Alberta, Canada. June 21-24 2010.

## 2009 OSTRF Publications

8. Beier, N., Segó, D. and Morgenstern, N. (2009). Dynamic Simulation of Tailings Management Options. Proceedings of the 13<sup>th</sup> International Conference on Tailings and Mine Waste Conference, November 1-4, 2009, Banff, Alberta, pp 441-450.
9. Ewanchuk, A.M., M. Alostaz, A.C. Ulrich & D.C. Segó. (2009). Fluorescence characterization of oil sands naphthenic acids. Proceedings of the 13<sup>th</sup> International Conference on Tailings and Mine Waste Conference, November 1-4, 2009, Banff, Alberta, pp 475-486.
10. Small, C.C., Z. Hashisho & A.C. Ulrich. (2009). Potential use of carbonaceous materials for the treatment of process-affected water. Proceedings of the 13<sup>th</sup> International Conference on Tailings and Mine Waste Conference, November 1-4, 2009, Banff, Alberta, pp 499-512.
11. Zhang, C., Alostaz, M., Beier, N., and Segó, D. (2009). Cross Flow Filtration of Oil Sand Tailings. Proceedings of the 13<sup>th</sup> International Conference on Tailings and Mine Waste Conference, November 1-4, 2009, Banff, Alberta, pp 799-812.

## 2008 OSTRF Publications

12. Azimi, A.H., Zhu, D., and Rajaratnam, N. 2008. Numerical simulation of sand jet in water. . 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 9pp
13. Beier, N., Segó, D. and Morgenstern, N.R. 2008. Developing a dynamic simulation model for tailings management and planning. . 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 7pp
14. Cai, J., Zhu, D., and Rajaratnam, N. 2008. Preliminary study of sand jets in water-capped artificial and real MFT. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 11pp.
15. Donahue, R., Segó, D.C., Burke, B., Krahn, A., Kung, J., and Islam, N. 2008. Impact of ion exchange properties on the sedimentation properties of oil sands mature fine tailings and synthetic clay slurries. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 9pp.
16. Fu, H., Gamal El-Din, M., Smith, D.W., MacKinnon, M.D., and Zubot, W. 2008. Ozone treatment of naphthenic acids in Athabasca oil sands process-affected water. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 4pp
17. Hall, N., Elenany, M., Zhu, D., and Rajaratnam, N. 2008. Experimental measurements of turbulent sand and slurry jets. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 10pp
18. Kaminsky, H., Etsell, T., Ivey, D., and Omotoso, O. 2008. Distribution of minerals in process streams after bitumen extraction by the hot water extraction process. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 9pp
19. Li, C., Siddique, T., and Foght, J. 2008. Investigating biological methane production and its impact on densification of oil sands tailings. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 7pp
20. Nik, R., Segó, D.C., and Morgenstern, N.R. 2008. Possibility of using centrifugal filtration for production of non-segregating tailings. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 9pp
21. Mihiretu, Y., Chalaturnyk, R., and Scott, D. 2008. Tailings segregation fundamentals from flow behaviour perspectives. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 9pp
22. Wang, Y., Pourrezaei, P., and Gamal El-Din, M. 2008. Coagulation-flocculation pretreatment of oil sands process-affected waters. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 9pp
23. Yang, J. and Chalaturnyk, R. 2008. Computational Fluid Dynamic simulation of standpipe tests. 1<sup>st</sup> International Oil Sands Tailings Conference, Edmonton, Alberta, December 7-10, 2008. 9pp
24. Mihiretu, Y., Chalaturnyk, R., and Scott, J.D. 2008 Quantitative study of tailings segregation. 61<sup>st</sup> Canadian Geotechnical Conference, Edmonton, Alberta, September 21-24, 2008. 5pp.

25. Beier, N., and Segó, D.C. 2008. Dewatering of oil sands tailings using cross flow filtration. 61<sup>st</sup> Canadian Geotechnical Conference, Edmonton, Alberta, September 21-24, 2008. 8pp.
26. H. Kaminsky, T.H. Etsell, D.G. Ivey and O.E. Omotoso. 2008. Characterization of Heavy Minerals in the Athabasca Oil Sands. *Minerals Engineering*, **21** (2008) 264-271.
27. Elenany, M.G.S., Hall, N., Rajaratnam, N. and Zhu, D.Z. 2008. Observations on sand jets in air, submitted to *Journal of Hydraulic Research*.
28. A. Hooshar, P. Uhlik, H. Kaminsky, T. Etsell, Q. Liu, O. Omotoso and D.G. Ivey, "Characterization of Fine Fractions in Bitumen Froth and Tailings Produced by Hot Water Extraction of Oil Sands from the Athabasca Region, Alberta, Canada", 235th ACS National Meeting, April 6-10, 2008, New Orleans, La.
29. Beier, N., and Segó, D.C. 2008. The Oil Sands Tailings Research Facility, *Geotechnical News*, **26**:2, June 2008, 72-77.

### **2007 OSTRF Publications**

30. Beier, N., and Segó, D.C. 2007. The Oil Sands Tailings Research Facility, *Proceedings of 60th Canadian Geotechnical Conference, OttawaGeo 2007*, Ottawa, Ontario, October 21-24, 2007. 8p
31. Mihiretu, Y., Chalaturnyk, R., and Scott, J.D. 2007. Segregation study by Flume Test. *Proceedings of 60th Canadian Geotechnical Conference, OttawaGeo 2007*, Ottawa, Ontario, October 21-24, 2007. 8p
32. Beier, N, Segó, D.C, Donahue, R, Kevin Biggar, KW. 2007. Laboratory investigation on freeze separation of saline mine waste water, *Cold Regions Science and Technology*, **48**: 239-247.
33. Beier, N., Segó, D., Donahue, R., and Biggar, K. 2007. Trickle-freeze separation of contaminants from saline waste water. *International Journal of Mining, Reclamation and Environment*, **21**:2, 144-156
34. H. Kaminsky, T.H. Etsell, D.G. Ivey and O. Omotoso. 2007. Characterization of Heavy Minerals in the Athabasca Oil Sands, *Processing & Disposal of Mineral Industry Wastes 07*, June 14-15, 2007, Falmouth, UK.
35. H. Kaminsky, T.H. Etsell, D.G. Ivey and O. Omotoso, "Characterization of Clay Minerals in Froth, Middlings and Tailings Streams Produced by Hot Water Extraction of Athabasca Oil Sands", *Processing & Disposal of Mineral Industry Wastes 07*, June 14-15, 2007, Falmouth, UK, published in proceedings, B. Willis, ed., 29 pages.
36. Beier, N., Biggar, K. Segó, D. and Donahue, R. 2007. Freeze Separation of Saline Mine Waste Water. *Proceeding of the Fifth Biennial Workshop on Assessment and Remediation of Contaminated Sites in Arctic and Cold Climates*. Edmonton, May 7-8, 2007 pp: 216-225.
37. Elenany, M.G., Hall, N., Zhu, D.Z. and Rajaratnam, N. (2007) Experimental Study on Sand Jets in Water. *Hydraulic Measurements & Experimental Methods 2007*, Crowne Plaza Resort & Golf Club, Lake Placid, New York, Sept. 10-12, 2007

## 2006 OSTRF Publications

38. H. Kaminsky, T. Etsell, D.G. Ivey and O. Omotoso, 2006, *Fundamental Particle Size of Clay Minerals in Athabasca Oil Sands Tailings*, **Clay Science**, Vol. 12, 217-222.
39. H. Kaminsky, T.H. Etsell, D.G. Ivey and O.E. Omotoso, "Characterization of Heavy Minerals in the Athabasca Oil Sands", *CIM Conference and Exhibition*, Vancouver, BC, May 14-17, 2006.
40. H. Kaminsky, D.G. Ivey, T.H. Etsell and O. Omotoso, *Characterization of Oil Sands Minerals*, Oil Sands 2006, University of Alberta, February 22-24, 2006.
41. Jeeravipoolvarn, S., Scott, J.D., and Chalaturnyk, R.J. Three ten metre high standpipe tests on tailings. Proceedings of 59th Canadian Geotechnical Conference, Sea to Sky Geotechnique 2006, Vancouver, B.C., October 1-4, 2006, 8p.
42. M. Chang, Z. Xu, S. Liu, A. Nelson, K. Hashmi, and O. Omotoso. 2006. Recovery of kaolinite from oil sands fine tailings using the CANMET hydrocyclone. Proceedings of Hydrocyclones 06, Falmouth, UK, June 14-15, 2006.

## 2005 OSTRF Publications

43. H. Kaminsky, T. Etsell, D.G. Ivey and O. Omotoso, "Fundamental Particle Size of Clay Minerals in Athabasca Oil Sands Middlings", *13<sup>th</sup> International Clay Conference*, Tokyo, Japan, August 21-27, 2005.
44. Beier, N., Biggar, K.W., Donahue, R. and Segó, D.C.. 2005. Freeze Separation of Contaminants from Salt Contaminated Water: Proceedings of 58th Canadian Geotechnical Conference, GeoSask 2005, Saskatoon, Saskatchewan, September 18-25, 2005. 8p
45. Niven, E., Robertson, P.K., Segó, D.C. and Woeller, D., 2005. On The Use of the SPT and CPT in Loose Sands. Proceedings of 58th Canadian Geotechnical Conference, GeoSask 2005, Saskatoon, Saskatchewan, September 18-25, 2005. 8p

## 2004 OSTRF Publications

46. Guo, C., Chalaturnyk, R.J., Scott, J.D. and Mackinnon, M. 2004. Densification of Oil Sands Tailings by Biological Activity. Proceedings of 57th Canadian Geotechnical Conference, GeoQuebec 2004, Quebec City, Quebec, October 24 - 27 2004, 8p
47. Scott, J.D., Chalaturnyk, R.J., and Jeeravipoolvarn, S. 2004. Fine Tailings decrease in volume by creep compression. Proceedings of 57th Canadian Geotechnical Conference, GeoQuebec 2004, Quebec City, Quebec, October 24 - 27 2004, 8p

## **2002 OSTRF Publications**

48. Guo, C., Chalaturynk, R.J., Scott, J.D., Mackinnon, M. and Cyre, G. 2002. Geotechnical Investigation of the Rapid Densification Phenomenon of Oil Sands Mature Fine Tailings by Biological Activity. Proceedings of 55th Canadian Geotechnical Conference, Niagara Falls, Ontario October 20 - 23 2003, 8p