

## **Houmao Liu – Publications & Presentations**

- Liu, H.**, F. Duran del Valle, J. Xiang, and B. Şener Kaya. 2012. "Simulation of Three-Dimensional Pore-Pressure Distribution for Slope-Stability Analysis." *46<sup>th</sup> US Rock Mechanics/Geomechanics Symposium*, Chicago, IL, 24-27 June.
- Liu, H.**, R. Bashir, S. Axen, J. Hatley, and G. Murdock. 2010. "Quantifying the Effect of Localized Depressurization on a Deep Underground Orebody at the McArthur River Mine through Cross Hole Hydraulic Testing and Groundwater Modelling." *Proceedings of the 3<sup>rd</sup> International Conference on Uranium 40<sup>th</sup> Annual Hydrometallurgy Meeting (Saskatoon, Canada, 15-18 August 2010)*, vol. 1. E.K. Lam, J.W. Rowson, and E. Özberk, eds. Québec, Canada: Canadian Institute of Mining, Metallurgy and Petroleum: p. 241.
- Atkinson, L.C., P.G. Keeping, J.C. Wright, and **H. Liu**. 2010. "The Challenges of Dewatering at the Victor Diamond Mine in Northern Ontario, Canada." *Mine Water Environ* vol. 29, no. 2: pp. 99–107.
- Liu, H.**, J. Hatley, R. Bashir, and L.C. Atkinson. 2008. "Depressurising an Underground Ore Body at the McArthur River Mine in Northern Saskatchewan, Canada." *Proceedings of 10th International Mine Water Association Congress (Karlovy Vary, Czech Republic, June 2008)*, paper no. 206. Ostrava: VSB – Technical University of Ostrava.
- Liu, H.**, and G. Amy. 1993. "Modeling Partitioning and Transport Interactions Between Natural Organic Matter (NOM) and Polynuclear Aromatic Hydrocarbons (PAH) in Groundwater." *Environ. Sci. Technol.*, vol. 27, no. 8: pp. 1553-1562.
- Amy, G., M. Conklin, **H. Liu**, and C. Cawein. 1991. "Polynuclear Aromatic Hydrocarbon (PAH) Binding to Natural Organic Matter (NOM): A Comparison of NOM Fractions." *Organic Substances and Sediments in Water*. R. Baker, ed. Chelsea, MI: Lewis Publishers.
- Amy, G., M. Conklin, **H. Liu**, and C. Cawein. 1990. "Polynuclear Aromatic Hydrocarbon (PAH) Binding to Natural Organic Matter (NOM): A Comparison of Various NOM Fractions" (extended abstract). *Concepts in Manipulating Colloids for Environmental Restoration (U.S. DOE Conference, Manteo, North Carolina, 1990)*. J. McCarthy, ed.
- Gu, Z., Y. Yuan, and **H. Liu**. 1987. "Gas-Liquid Flow on Curved Surface." *Frontiers of Fluid Mechanics: Proceedings of the Beijing International Conference on Fluid Mechanics*. S. Yuan, Ed. Oxford: Pergamon Press: pp. 768-773.

### **PRESENTATIONS**

- Liu, H.**, et al. 2009. Mining Hydrology Short Course (3 days), SME, Denver.
- Liu, H.**, et al. 2008. Mining Hydrology Short Course (2 days), Cameco Corporation, Saskatchewan.
- Liu, H.**, J. Mahoney, and D. Langmuir. 2002. "Further Refinement of the Davis-Ritchie Model of Pyrite Oxidation in Geologic Materials Associated with Mining." 2002 Denver Annual Meeting of the Geological Society of America, poster, October.
- Rusdinar, Y., G. Parseryo, **H. Liu**, and V. Ugorets. 2002. "Identification of Dewatering Targets for Grasberg Pit Using Hydrogeochemical Fingerprint Approach." Presented at the 2002 Denver Annual Meeting of the Geological Society of America, Denver, CO, October.

- Howell, R.L., L.C. Atkinson, and **H. Liu**. 2000. "Numerical Evaluation of Effectiveness of Drainwells in Dewatering Overburden at Surface Coal Mines." SME Annual Meeting, Salt Lake City, UT.
- Liu, H.**, and R.J. Sterrett. 1999. "Parameter Fitting for the Kinetic Solute Transport Models Under Non-Ideal Conditions." 1999 National Ground Water Association Thesis Conference on Remediation of DNAPLs, poster presentation.
- Mahoney, J.J., **H. Liu**, J. Warner, and R.J. Sterrett. 1996. "In Situ Measurement of the Rate of Vinyl Chloride degradation in a Gravel Aquifer." Conference of Intrinsic Remediation of Chlorinated Solvents, abstract and poster session, Salt Lake City, UT.
- Johnson, W., **H. Liu**, and G. Amy. 1993. "Natural Organic Matter (NOM) Interactions with Polynuclear Aromatic Hydrocarbons (PAH): Facilitated Transport and Enhanced Desorption under Saturated Groundwater Conditions." 205<sup>th</sup> ACS Conference, Division of Environmental Chemistry, preprints, Denver, CO.
- Liu, H.**, E. Chu, and G. Amy. 1993. "Subsurface Transport of Natural Organic Matter (NOM) Through Saturated Aquifer Sediments." 205<sup>th</sup> ACS Conference, Division of Environmental Chemistry, preprints, Denver, CO.
- Amy, G., **H. Liu**, and B. Johnson. 1992. "Observations on Humic-Facilitated Transport of PAH in Groundwater," 203<sup>rd</sup> ACS Conference, Division of Environmental Chemistry, preprints, San Francisco, CA.
- Amy, G., and **H. Liu**. 1990. "PAH Binding to Natural Organic Matter (NOM): A Comparison Of NOM Fraction and Analytical Methods." 199<sup>th</sup> ACS Conference, Division of Environmental Chemistry, preprints.