## **Hazards only Personal Bibliography**

- **Wang, B.** and Cavers, D. (2004) Rockfall impact and ground penetration calculations for design of pipeline burial depth. (Submitted) *Canadian Geotechnical Journal*.
- **Wang, B.,** Cavers, D. and Wong, B. (2004) Surface failure mechanism and support design of a stratified sandstone slope. Proceedings of the *IX International Symposium on Landslides*, Rio de Janeiro, Brazil, June 28 July 2, 2004, p. 475-480.
- **Wang, B.** (2003) Geotechnical considerations of landslide impact on caissons during earthquake induced soil liquefaction. Proceedings of the *56<sup>th</sup> Canadian Geotechnical Conference*, Winnipeg, September 28 October 1, 2003, Vol. 2, p. 407-411.
- **Wang, B.** and Murray, L. (2003) An unsaturated soil seepage analysis for design of a soil cover system to reduce oxidation of a mine tailings deposit. Proceedings of the *International Conference: From Experimental Evidence towards Numerical Modelling of Unsaturated Soils*, Weimar, Germany, September 18-19, 2003.
- **Wang, B.** and Cavers, D. (1999) Evaluation of rockfall impact and ground penetration for design of buried pipelines. Proceedings of the *52*<sup>nd</sup> Canadian Geotechnical Conference, Regina, Saskatchewan, October 24-27, 1999, p. 461-468.
- Li, G. and **B. Wang,** (1998) Development and application of a 3-D Block-Spring Model for jointed rocks. Proceedings of the 3<sup>rd</sup> International Conference on Mechanics of Jointed and Faulted Rock, Vienna, Austria, April 6-9, 1998, p. 469-474.
- **Wang, B.** (1998) Stability Study of Open Pit Slopes at Highland Valley Copper. Client report submitted to Highland Valley Copper, BC. *CANMET Client Report:* #MMSL 97-098(CR), 77 p.
- **Wang, B.,** Daly, S. and Lighthall, P. (1998) Stability study of open pit slope at Highland Valley Copper. Proceedings of the *Intl. Symp. on Mine Planning & Equipment Selection*, Calgary, Alberta, p. 113-118.
- Bétournay, M. and **Wang**, **B.** (1997) Review of the Impact of Mining on the Shallow Rock Mass at the Lamefoot Mine, Washington State, Phase II: Numerical Modelling and Analysis of Rock Mass Displacements and Subsidence Final Report. Client report submitted to U.S. Bureau of Land Management, Washington. *CANMET Client Report: #MMSL 97-058(CR)*, 55 p.

- **Wang, B.,** Dunne, K., Pakalnis, R. and Vongpaisal, S. (1997) Prediction and measurement of hangingwall movements of Detour Lake Mine SLR stope. Proceedings of the *9*<sup>th</sup> International Conference of the International Association for Computer Methods and Advances in Geomechanics, Wuhan, China, November 2-7, 1997, p.1571-1575.
- **Wang, B.,** Kwon, S., Miller, H.D.S., Lee, D.H. and Lee, H.K. (1997) Physical model and numerical model analyses of jointed rocks. Environmental and Safety Concerns in Underground Constructions. Proceedings of the 1<sup>st</sup> Asian Rock Mechanics Symposium (ARMS'97), Seoul, Korea, October 13-15, 1997, p.649-654.
- Yu, Y., Toews, N., Vongpaisal, S., Boyle, R. and **Wang, B.** (1997) Mine-wide ground stability assessment and mine planning using the finite element technique. Proceedings of the *9<sup>th</sup> International Conference of the International Association for Computer Methods and Advances in Geomechanics*, Wuhan, China, November 2-7, 1997, p.1553-1558.
- Zhu, W., Chen, W. and **Wang**, **B.** (1997) Numerical simulation and experimental study of excavation and anchoring support of underground chambers in jointed rock mass. Environmental and Safety Concerns in Underground Constructions. Proceedings of the 1<sup>st</sup> Asian Rock Mechanics Symposium (ARMS'97), Seoul, Korea, October 13-15, 1997, p. 565-570.
- Zhu, W., Qu, X., Chen, W. and **Wang, B.** (1997) Application of Block-Spring Model to slope stability analysis of Three Gorges project, Internal report as an accomplishment to a national key research project funded by Natural Sciences Foundation of China and Three Gorges Project Development Corporation, 17 p.
- **Wang, B.** (1996) Deformable Block Modelling of Jointed Rocks with the Block-Spring Model. Proceedings of the 2<sup>nd</sup> North American Rock Mechanics Symposium, Montréal, Quebec, p. 1945-1950.
- **Wang, B.**, Vongpaisal, S and Yu, Y.S. (1996) Analysis of Stability of 660-885 and 745-885 Stopes at the Detour Lake Mine Final Report. *CANMET Client Report:* #MMSL 96-060(CR), 34 p.
- Yu, Y.S., Toews, N.A., Boyle, R., Vongpaisal, S., **Wang, B.** and Thomson, S. (1996) Very Large-Scale 3-D Modelling of Mine Structures Using the Finite Element Technique. Proceedings of the 2<sup>nd</sup> North American Rock Mechanics Symposium, Montréal, Quebec, p. 1871-1878.
- **Wang, B.** and Vongpaisal, S. (1995) Back Analysis of Stope Stability at Detour Lake Mine Coupled Regression BSM Numerical Modelling, Report Milestone #1 Regression Computation Basis. *CANMET Client Report: #MMSL 95-26(CL)*, 7 p.

- **Wang, B.**, Yu, Y.S. and Aston, T. (1995) Stability Assessment of an Inactive Mine Using the Block-Spring Model. *CANMET Division Report: #MRL 95-029(OPJ)*, 10 p.
- **Wang, B.,** Yu, Y.S. and Aston, T. (1995) Stability Assessment of an Inactive Mine Using the Numerical Model. Proceedings of the 3<sup>rd</sup> Canadian Conference on Computer Applications in the Mineral Industry, Montréal, Quebec, p. 390-399.
- **Wang, B.**, Yu, Y.S., Aston, T. and Bétournay, M. (1995) Assessment of the Effect of Crown Pillar Removal on Regional Stability at Howey and Hasaga Inactive Mine Sites, Red Lake, Ontario. *Client report* submitted to *Ontario Ministry of Northern Development and Mines*, MRL #94-041(CL), 78 p.
- **Wang, B.,** Yu, Y.S. and Vongpaisal, S. (1995) A Case Study of Sub-Level Retreat Mining at Detour Lake Mine Using BSM Models. Proceedings of the 2<sup>nd</sup> International Conference on Mechanics of Jointed and Faulted Rocks, Vienna, Austria, p. 927-932.
- **Wang, B.** (1994) A Curved Structural Element Model for Rock Surface Linings in Discontinuous Rock Analysis. Rock Mechanics Models and Measurements Challenges from Industry. Proceedings of the 1<sup>st</sup> North American Rock Mechanics Symposium, Austin, Texas, P. P. Nelson and S. E. Laubach (Eds.), Published by A.A. Balkema, p. 623-630.
- Wang, B. (1994) BSM A Windows Application Package of the Block-Spring Model for Analysis of Jointed Rocks (User's Manual). *CANMET Technical Report: #MRL94-012(TR)*, 46 p.
- **Wang, B.**, Yu, Y.S. and Vongpaisal, S. (1994) A Case Study of Sub-Level Retreat Mining at Detour Lake Mine Using BSM Models. *CANMET Technical Report: #MRL 94-054(OPJ)*.
- **Wang, B.**, Yu, Y.S. and Vongpaisal, S. (1994) Ground Stability Guidelines for Sub-Level Retreat Mining at Detour Lake Mine, Final Report. *CANMET Client Report: #MRL 94-023 (CL)*, 77 p.
- **Wang, B.**, Yu, Y.S. and Vongpaisal, S. (1994) Progress Report on Ground Stability Guidelines for Sub-Level Retreat Mining at Detour Lake Mine (Task 3 Milestone 7). *CANMET Client Report: #MRL 94-015 (CL)*, 16 p.
- Yu, Y.S. and **Wang, B.** (1994) A Parametric Stability Assessment of the No.6 Shaft between Levels 3000 and 3300 at the Copper Rand Mine, Chibougamau, Quebec. *CANMET Client Report: #MRL 94-020(CL)*, 44 p.
- Yu, Y.S. and **Wang, B.** (1994) Stability Assessment of the Howey and Hasaga Shallow Mine Workings, Red Lake, Ontario. In: Geomechanical Investigation of

- the Howey and Hasaga Shallow Mine Workings, Red Lake, Ontario, Vol. V. Client report submitted to Ontario Ministry of Northern Development & Mines. *CANMET Client Report: #MRL 93-056(CL)*, 49 p.
- Yu, Y.S., **Wang, B.** and Bétournay, M. (1994) VISROCK: A Two-dimensional Finite Element Package for Elasto-Viscoplastic for Potash and Soft Rock Mining Applications. Proceedings of the *Rock Mechanics and Ground Control in the Soft Rock and Coal Industries*, One-day Workshop organized by the Soft Rock and Coal Engineering Subcommittee of the Rock Mechanics and Strata Control Committee of CIM, Sydney, Nova Scotia, June 29, 1994, Paper No.11.
- Garga, V.K. and **Wang, B.** (1993) A Numerical Method for Modelling Large Displacements of Jointed Rocks Part II: Modelling of Rockbolts and Groundwater, and Applications. *Canadian Geotechnical Journal*, 30 (1), p.109-123.
- **Wang, B.** and Garga, V.K. (1993) A Numerical Method for Modelling Large Displacements of Jointed Rocks Part I: Fundamentals. *Canadian Geotechnical Journal*, 30 (1), p. 96-108.
- **Wang, B.** and Yu, Y.S. (1993) Analysis of Donkin-Morien Mine Access Tunnel Using Block-Spring Model. Proceedings of the *International Symposium on Application of Computer Methods in Rock Mechanics and Engineering*, Xian, China, Liu Huai-heng (Ed.), Shanxi Science and Technology Press, Xian, China, Vol. 1, p. 259-266.
- Yu, Y.S., Toews, N.A. and **Wang, B.** (1993) An Analytical Approach for Solving the Factor of Safety of a Block Sliding on Two Planes Wedge Type Failure. *CANMET Technical Report: #MRL 93-097 (TR)*, 21 p.
- Yu, Y.S. and **Wang**, **B.** (1993) Progress Report on Ground Stability Guidelines for Sub-level Retreat Mining at Detour Lake Mine -Task 3. *CANMET Technical Report: #MRL 93-074(TR)*, 7 p.
- Yu, Y.S., **Wang, B.** and Bétournay, M. (1993) An Introduction of Numerical Modelling Capabilities at the Mining Research Laboratories, CANMET. CANMET Report: #MRL 93-089 (OP), 19 p.
- **Wang, B.** (1992) A Block-Spring Model for Jointed Rocks. *CANMET Technical Report: #MRL92-023(TR)*, 204 p.
- Wang, B. (1992) Introducing BSM A Computer Program of the Block-Spring Model for Analyzing Jointed Rocks. *CANMET Technical Report: #MRL 92-124(TR)*, 10 p.

- **Wang, B.** (1992) Modelling of Ground Support with Block-Spring Model. *CANMET Technical Report: #MRL 92-005 (TR)*, 11 p.
- **Wang, B.** and Garga, V.K. (1992) A Numerical Model for Rock Bolts. Rock Support in Mining and Underground Construction. Proceedings of the *International Symposium on Rock Support*, Sudbury, Ontario, Kaiser, P.K. and McCreath, D.R. (Eds.), p. 57-65.
- **Wang, B.** (1991) A Block-Spring Model for Jointed Rocks. Ph.D. Thesis. Department of Civil Engineering, University of Ottawa, Ottawa, Ontario, Canada. 204 p.
- **Wang, B.** and Garga, V.K. (1991) A Block-Spring Model for Analyzing Discontinuous Rocks. Proceedings of the *44<sup>th</sup> Canadian Geotechnical Conference*, Calgary, Alberta, 1, (32).
- Ma, Q. and **Wang**, **B.** (1990) A Method of Prediction of In-Situ Ground Stresses from Ground Deformation Measurements in Rocks. *Chinese Journal of Geotechnical Engineering*, 12 (3), p.10-21.
- **Wang, B.** and Garga, V.K. (1990) A Block-Spring Method for Stability Analyses of Excavations in Jointed Rocks. Proceedings of the *Speciality Conference: Stresses in Underground Structures*, October 2-3, Ottawa, Ontario, p.120-129.
- Ma, Q. and **Wang**, **B.** (1986) Interpretation and Analyses of Measured Stresses for Design of Large Underground Openings at Lu-Bu-Ge Dam Project. (Won a ministry award [1986] and a China national award [1987]), Paper compiled in "Achievements of Key Research Projects in China's 6th Five-Year National Plan", File No. 15-2-1, (2), p. 131-144.
- **Wang, B.** and Ma, Q. (1986) Boundary Element Methods for Ground Stress Field of Rock Masses. *International Journal of Computers and Geotechnics*, 2, p. 261-274.
- **Wang, B.** and Ma, Q. (1986) Boundary Element Techniques for Evaluation of Initial Ground Stresses in Rocks. (Won a China State Education Commission award), Paper compiled in "Achievements of Key Research Projects in China's 6th Five-Year National Plan", File No. 15-2-1, (4), p. 364-372.
- Wang, B. (1985) Boundary Element Techniques for Interpretation of In-situ Ground Stresses in Rocks. M. Sc. Thesis. Department of Water Resources Engineering, Tianjin University, Tianjin, China, 110 p.
- **Wang, B.** and Ma, Q. (1985) A Direct Boundary Element Method for Rock Ground Stress Calculation. Proceedings of the *China 2<sup>nd</sup> National Symposium*

on Numerical and Analytical Methods in Geomechanics, Xian, China, November 1985.

**Wang, B.** and Ma, Q. (1985) Boundary Integral Methods for Ground Stress Field in Rocks. Proceedings of the *China 1<sup>st</sup> National Conference on Boundary Element Method in Geotechnical Engineering*, Wuhan, China, December 1985.