

PAPERS IN REFEREED JOURNALS (supervised students in **bold**)

- J1. M. R. Nokken, **T. Salloum, A. Idle and L. Martinez Ramos**, 2014, "Standardized Testing for Determining the Durability of High Volume Fly Ash Mixtures", Journal of Materials in Civil Engineering (ASCE) Vol. 26, No. 1, pp. 206-210.
- J2. **P. Payrow**, M. R. Nokken, D. Banu, R. Schmidt, C. E. DeWolf and D. Feldman, 2013, "Investigation of the Effect of UV and UV-Ozone Treatment of Polyolefin Fiber for Improving Concrete Composite Toughness", Advances in Civil Engineering Materials, Vol. 2, No.1
- J3. **R. Mohammadi Ahani**, M. R. Nokken, 2012, "Salt scaling resistance – the effect of curing and pre-saturation", Construction and Building Materials, Vol. 26, No. 1, pp. 558-564.
- J4. **P. Payrow**, M. R. Nokken, D. Banu and D. Feldman, 2011, "Effect of Chemical Surface Treatment on the Post-Crack Residual Strength and Toughness of Fiber Reinforced Concrete", Journal of Composite Materials, Vol. 45, No. 20, pp. 2047-2054.
- J5. M. R. Nokken, 2010, "Expansion of MgO in Cement Pastes Measured by Different Methods", to ACI Materials Journal, ACI Materials Journal, Vol. 107, No. 1, pp. 80-84.
- J6. M. R. Nokken, A. E. Boddy, **X. Wu** and R. D. Hooton, 2008, "Effects of temperature, chemical and mineral admixtures on the electrical conductivity of concrete", Journal of ASTM International, Vol. 5, No. 5.
- J7. M. R. Nokken, and R. D. Hooton, 2008, "Using Pore Parameters to Estimate Permeability or Conductivity of Concrete", Materials and Structures, Vol. 41, No. 1, pp. 1-16.
- J8. F. P. Hassani, M. R. Nokken, and A. B. Annor, 2007, "Physical and mechanical behaviour of various combinations of minefill materials", Canadian Institute of Mining and Metallurgy (CIM) Magazine, Volume 2, No. 3, pg. 72.
- J9. M. R. Nokken, and R. D. Hooton, 2006, "Electrical Conductivity Testing: A Prequalification and Quality Assurance Tool", Concrete International, Vol. 28, No. 11, pp. 61-66.
- J10. M. R. Nokken, A. Boddy, R. D. Hooton and M. D. A. Thomas, 2006, "Time Dependant Diffusion in Concrete", Cement and Concrete Research, Vol. 36, No. 1, pp. 200-207.
- J11. M. R. Nokken, R. D. Hooton and C. A. Rogers, 2004, "Measured Internal Temperatures in Concrete Exposed to Outdoor Cyclic Freezing", Cement, Concrete and Aggregates (ASTM), Vol. 26, No. 1, pp. 26-32.
- J12. M. R. Nokken and R. D. Hooton, 2002, "Dependence of Rate of Absorption on Degree of Saturation of Concrete", Cement Concrete and Aggregates (ASTM), Vol. 24, No. 1, pp. 20-24.

PAPERS SUBMITTED TO REFEREED JOURNALS

- J13. **F. Abbasy**, F. P. Hassani, S. A. Ghoreishi Madiseh, M. Nokken, "An experimental study on the effective parameters of thermal conductivity of mine backfill", Journal of Heat Transfer, (accepted, print edition scheduled in 2014).

BOOK CHAPTERS

- BC1. N. Hearn, R. D. Hooton and M. R. Nokken, Pore Structure and Permeability, Chapter 23 in Significance of Tests and Properties of Concrete and Concrete-Making Materials, ASTM STP 169D, American Society for Testing and Materials, May 2006, pp. 238-252

BOOK CHAPTERS SUBMITTED

- BC2. M. R. Nokken, Pore Structure and Permeability, Chapter 12 in Portland Cement Chemistry, Portland Cement Association, under review.

## PAPERS IN REFEREED CONFERENCE PROCEEDINGS

- C1. **M. Kermani**, F. Hassani, M. Benzaazoua, I. Isagon, M. Nokken and **S. Zamani**, 2013, The Effect of Curing Temperature on the Physical Properties of Hydraulic Backfill and Gelfill, 23rd World Mining Congress, August 11 – 15, Montreal, QC.
- C2. **A. Rahmatian**, A. Bagchi and M. Nokken, 2013, “Performance of an Innovative SHM System for RC Flexural Members under Normal and Adverse Environmental Conditions”. CSCE Annual Conference, Montreal, QC, May 29 – June 1, 2013.
- C3. **B. Mohammadi** and M. R. Nokken, 2013, “Influence of Moisture Content on Water Absorption in Concrete”, CSCE Annual Conference, Montreal, QC, May 29 – June 1, 2013.
- C4. **A. Rahmatian**, A. Bagchi and M. Nokken, 2013, “Finite Element Modeling of FRP Reinforced Concrete Flexural Elements Installed with a Protected Fiber Optic Strain Sensor”, TRB Annual Meeting, Washington, DC, January 13-17, 2013.
- C5. **A. Rahmatian**, A. Bagchi and M. Nokken, 2012, “Non-linear Finite Element Analysis of Fiber-reinforced Polymer Rectangular Beams in Structural Health Monitoring”. 6th International Conference on Advanced Composite Materials in Bridges and Structures, May 22-25, 2012, Kingston, ON.
- C6. **M. F. Kermani**, F. P. Hassani, M. Benzaazoua, M. Nokken, 2011, “Evaluation of the Effect of Sodium Silicate Addition to Mine Backfill”, 22nd World Mining Conference, 11-16 September, Istanbul, Turkey, Vol. 1, pp. 317-324.
- C7. **M. F. Kermani**, F. P. Hassani, I. Isagon, M. Nokken, **S. Haj-Zamani**, 2011, “Investigation into mechanical and microstructural properties of Gelfill”. Proceeding of the 10th International Conference on Mining with Backfill. March 21-25 2011, Cape Town, South Africa. pp. 153-158.
- C8. **M. Kermani**, F. P. Hassani, I. Isagon, M. Nokken, 2011, “The effect of sodium silicate and pulp density on the physical property of Gelfill”. Proceeding of the 26th International Conference on Solid Waste Technology and Management. Philadelphia, PA U.S.A., March 27-30 2011, pp. 1322-1332
- C9. F. P. Hassani, P. Radziszewski, M. R. Nokken and **P. Nekoovaght**, 2008, “Microwave Assisted Drilling and its Influence on Rock Breakage”, ISRM International Symposium 2008, 5th Asian Rock Mechanics Symposium, 24-26 November 2008 Tehran, Iran
- C10. **T. Salloum**, M. R. Nokken, **L. Tran**, 2007, “Effect of Fly Ash Replacement on Alkali and Sulphate Resistance of Mortars”, International Conference on Sustainability in the Cement and Concrete Industry, September 16 – 19, 2007, Lillehammer Norway, pp. 558-567.
- C11. F. P. Hassani, M. R. Nokken and A. B. Annor, 2007, “An investigation into composite minefill characteristics”, 9th International Symposium on Mining with Backfill, April 19 – May 2, 2007, Montreal Canada (CD-ROM proceedings)
- C12. M. R. Nokken, and R. D. Hooton, 2004, “Discontinuous Capillary Porosity in Concrete – Does it Exist?”, International Symposium: Advances in Concrete through Science and Engineering, Evanston IL, March 21-24, 2004 (CD-ROM proceedings)
- C13. M. R. Nokken and R. D. Hooton, 2003, “Development of Early-Age Impermeability in Concrete”, PCI Bridge Conference and FHWA-PCI International Symposium on High Performance Concrete, Orlando FL, October 19-23, 2003. (Paper 104, CD-ROM proceedings)
- C14. M. R. Nokken and R. D. Hooton, 2001, “Evaporative Transport of Chlorides in Concrete”, Proceedings Third International Conference on Concrete under Severe Conditions, Vancouver BC, June 2001, pp. 357-364.

## INDUSTRIAL TECHNICAL REPORTS

1. R.D. Hooton, M. Nokken and M.D.A. Thomas, “Portland-Limestone Cements: State-of-the-Art Report and Gap Analysis for CSA A 3000” for St. Lawrence Cement, 2007

## NON- REFEREED PAPERS

1. M. R. Nokken, “Concrete Permeability – Revisiting T. C. Powers, *Concrete Technology Today*. Vol. 26, No. 2, August 2005, pp. 6-7.
2. M. R. Nokken, Book Review of “Water Transport in Brick, Stone and Concrete”, *Cement, Concrete and Aggregates*. Vol. 25, No. 1, June 2003, pg 28.