

**Articles publiés ou acceptés dans des revues avec comité de lecture**

- 1- Gauvin, F., Cousin, P., Robert, M. (2014) "Improvement of the Interphase between Basalt Fibers and Vinylester by Nanoreinforced Post-Sizing." *Compos Part B: Eng*, accepté avril 2014.
- 2- Foruzanmehr, M., Chaillou, J., Elkoun, S., Robert, M. (2014) "Characterization and Durability Study of New Bio-Resin Based- FRP for External Rehabilitation of Structures." *Polym Composite*, accepté mars 2014.
- 3- Robert, M., Cousin, P., Benmokrane, B. (2013) "Durability GFRP Rock Bolts Submitted to Simulated Sub-Sea Cavern Water." *Constr Build Mater*, accepté décembre 2013.
- 4- Montaigu, M., Robert, M., Benmokrane, B. (2013) "Laboratory Characterization and Evaluation of Durability Performance of New Polyester and Vinylester E-glass GFRP Dowels for Jointed Concrete Pavement." *J Compos Constr*, 17(2) :176-187. [CRSNG, FQRNT, MTQ]
- 5- Robert, M., Benmokrane B. (2013) "Combined Effects of Saline Solution and Moist Concrete on Long-Term Durability of GFRP Reinforcing Bars." *Constr Build Mater*, 38: 274-284. [CRSNG, MTQ]
- 6- Robert, M., Fam, A. (2012) "Durability of GFRP Tubes Filled with Concrete and Subjected to Salt Solution." *J Compos Constr*, 16(2) :217-224. [CRSNG, FQRNT]
- 7- Robert, M., Cousin, P., Benmokrane, B. (2011) "Study of the Performance of FRP Reinforcing Bars Subjected to Extreme Conditions of Application." *Annales du BTP*, 1:9-27. [CRSNG, FQRNT]
- 8- Robert, M., Cousin, P., Fam, A., Benmokrane. B. (2011) "Effect of the Addition of Modified Mica on Mechanical and Durability Properties of FRP Composite Materials for Civil Engineering." *Polym Composite*, 32(8):1202-1209. [CRSNG]
- 9- Robert, M., Benmokrane, B. (2010) "Effect of Aging on Bond of GFRP Bars Embedded in Concrete." *Cement Concrete Comp*, 32(6):461-467. [CRSNG, FQRNT]
- 10- Robert, M., Cousin, P., Wang, P., Benmokrane, B. (2010) "Temperature as an Accelerating Factor for Long-Term Durability Testing of FRPs: Should there be any limitations?" *J Compos Constr*, 14(4):361-367. [CRSNG, FQRNT]
- 11- Robert, M., Benmokrane, B., (2010) "Physical, Mechanical and Durability Characterization of Preloaded GFRP Reinforcing Bars." *J Compos Constr*, 14(4):368-375. [CRSNG, FQRNT]
- 12- Robert, M., Benmokrane, B. (2010) "Behaviour of GFRP Reinforcing Bars Subjected to Extreme Temperatures." *J Compos Constr*, 14(4):353-360. [CRSNG, FQRNT]
- 13- Robert, M., Cousin, P., Benmokrane, B. (2009) "Durability of GFRP Reinforcing Bars Embedded in Moist Concrete." *J Compos Constr*, 13(2):66-73. [CRSNG, FQRNT]
- 14- Robert, M., Roy, R., Benmokrane, B. (2009) "Environmental Effects on Glass Fibre Reinforced PP Thermoplastic Composite Laminate." *Polym Composite*, 31(4):604-611. [CRSNG, MTQ]
- 15- Robert, M., Cousin, P., Benmokrane, B. (2008) "Influence de la température sur le comportement des composites de PRF pour le génie civil." *Annales du BTP*, 6:21-27. [CRSNG, FQRNT]

**Articles soumis dans des revues avec comité de lecture**

- 16- Gauvin, F., Montaigu, M., Robert, M. (2014) "Laboratory Evaluation of Chemical Resistance of Pultruded GFRP Dowels For Concrete Pavement" soumis à *Polym Composite*, avril 2014.

**Articles dans des comptes rendus de conférences avec comité de lecture**

- 17- Gauvin, F., Robert, M. (2014) "Grafting of a Nano-Tio<sub>2</sub> thin film on cellulosic natural fiber as an inter-phase for reinforcing bio-polymer composites." *1<sup>st</sup> International Conference on Mechanics of Composites (Mechcomp)*, 9-12 June, Stony Brook University, Long Island, USA.
- 18- Foruzanmehr, M., Robert, M. (2014) "Basalt fiber/vinylester composite interface reinforcement with nano-sizing process." *1<sup>st</sup> International Conference on Mechanics of Composites (Mechcomp)*, 9-12 June, Stony Brook University, Long Island, USA.
- 19- Foruzanmehr, M., Cousin, P., Robert, M. (2014) "Characterization and Durability Study of New Bio-Resin Based- FRP for External Rehabilitation of Structures." *1<sup>st</sup> International Conference on Mechanics of Composites (Mechcomp)*, 9-12 June, Stony Brook University, Long Island, USA.

- 20-Balanger, B., Foruzanmehr, M., Cousin, P., Robert, M., Elkoun, S. (2014) "Properties and microstructure of Natural Fiber/PLA Biocomposites." *1<sup>st</sup> International Conference on Mechanics of Composites (Mechcomp)*, 9-12 June, Stony Brook University, Long Island, USA.
- 21- Foruzanmehr, Robert, M. (2013) "Effects of TiO<sub>2</sub> Coating Thickness on Mechanical Properties of Treated Flax Fibers." *SAMPE Show and Conference*, 2-5 mai, Seattle, USA.
- 22- Foruzanmehr, M., Robert, M., (2013) "Effect of Alkaline Solution on the Degradation of Furan-based Composites." *JEC Americas Show and Conference*, 2-4 octobre, Boston, USA.
- 23- Millière, L., Cousin, P., Robert, M. (2013) "Functionalization of nano-SiO<sub>2</sub> for Fiber/Polymer Reinforcement in Composites." *Composites Show and Conference of the American Composites Manufacturers Association (ACMA)*, 29-31 janvier, Orlando, USA.
- 24- Robert, M., Fam, A. (2012) "Durability of Concrete-Filled FRP Tubes Subjected to Salt Solution." *6<sup>th</sup> Int Conf on Advanced Composite Materials in Bridges and Structures (ACMBS)*, 22-25 mai, Kingston, Canada. [CRSNG, FQRNT]
- 25- Robert, M., Benmokrane, B., Fam, A. (2011) "Durability Study of Glass FRP Bars Subjected to Extreme Environmental and Loading Conditions." *4<sup>th</sup> Int Conf on Durability & Sustainability of FRP Composites for Construction and Rehabilitation (CDCC)*, 20-22 juillet, Québec, Canada. [CRSNG]
- 26- Robert, M., Fam, A. (2011) "Durability of CFFT Tubes Subjected to Harsh Environments." *4<sup>th</sup> Int Conf on Durability & Sustainability of FRP Composites for Construction and Rehabilitation (CDCC)*, 20-22 juillet, Québec, Canada. [CRSNG, FQRNT]
- 27- Montaigu, M., Robert, M., Benmokrane, B. (2011) "Durability Characteristics of New GFRP Dowels for Concrete Pavement." *4<sup>th</sup> Int Conf on Durability & Sustainability of FRP Composites for Construction and Rehabilitation (CDCC)*, 20-22 juillet, Québec, Canada. [CRSNG, FQRNT, MTQ]
- 28- Caron Perigny, P.-O., Robert, M., Benmokrane, B. (2011) "Creep Rupture Experimental Method for Strength Evaluation of GFRP Reinforcing Bars." *4<sup>th</sup> Int Conf on Durability & Sustainability of FRP Composites for Construction and Rehabilitation (CDCC)*, 20-22 juillet, Québec, Canada. [CRSNG]
- 29- Robert, M., Cousin, P., Fam, A. (2011) "Caractérisation de revêtements de surface polymères nanorenforcés pour la protection des structures existantes." *Orgagec'11: Les matériaux organiques au service de la rénovation du patrimoine bâti*. 6-8 juillet, Villeneuve d'Ascq, France. [CRSNG]
- 30- Montaigu, M., Robert, M., Benmokrane (2011) "Laboratory Evaluation of Pultruded Polyester and Vinylester GFRP Dowels for Concrete Pavement ." *2<sup>nd</sup> Int Eng Mechanics and Materials Specialty Conf (CSCE)*, 14-17 juin, Ottawa, Canada. [CRSNG, FQRNT, MTQ]
- 31- Robert, M., Benmokrane, B. (2010) "Characterization and Long-term Durability Performance of Non-corrodible Glass FRP Reinforcing Bars Embedded in Moist Concrete." *Corrosion and Prevention*, 14-17 novembre, Adelaide, Australia. [CRSNG, FQRNT]
- 32- Robert, M., Fam, A., (2010) "The Use of Polymer/Organosilicates Nanocomposites as Water Barrier for FRP Materials." *38<sup>th</sup> Annual General Meet and Conf Can Soc for Civil Eng (CSCE)*, 9-12 juin, Winnipeg, Canada. [CRSNG, FQRNT]
- 33- Robert, M., Ahmed, E., Benmokrane, B. (2010) "Mechanical, Physical and Durability Characterization of GFRP Dowels." *38<sup>th</sup> Annual General Meet and Conf Can Soc for Civil Eng (CSCE)*, 9-12 juin, Winnipeg, Canada. [CRSNG, FQRNT, MTQ]
- 34- Robert, M., Cousin, P., Benmokrane, B. (2009) "Moisture Absorption and Long-Term Durability of GFRP bars Subjected to high Stress Level." *2<sup>nd</sup> Official Regional Conf Int Inst for FRP in Construction for Asia-Pacific Region (APFIS)*, 9-11 décembre, Seoul, Corée du Sud. [CRSNG]
- 35- Robert, M., Cousin, P., Benmokrane, B. (2009) "Use of Thermoset/Organomica Nanocomposites to Enhance the Long-Term Durability of Structural FRP Composite Materials." *Advanced Composites in Construction (ACIC)*, 1-3 septembre, Edinburgh, Écosse. [CRSNG, FQRNT]
- 36- Robert, M., Cousin, P., Benmokrane, B. (2009) "Microstructural and Mechanical Characterization of FRP Reinforcing Bars Submitted to Previous Prestress Tensile Loads." *4<sup>th</sup> Int Conf on Const Materials (Conmat)*, 24-26 août, Nagoya, Japon. [CRSNG, FQRNT]

- 37- Robert, M., Cousin, P., Benmokrane, B. (2009) "Characterization and Long-Term Durability of GFRP Reinforcing Bars Embedded in Moist Concrete." *9<sup>th</sup> Int Symp on FRP Reinf for Concrete Structures (FRPRCS-9)*, 13-15 juillet, Sydney, Australie. [CRSNG, FQRNT]
- 38- Robert, M., Benmokrane, B. (2009) "Behavior of GFRP Bars Subjected to Extreme Temperatures." *1<sup>st</sup> Int/1<sup>st</sup> Eng Mechanics and Materials Specialty Conf (CSCE)*, 27-30 mai, St.Johns,Canada. [CRSNG]
- 39- Robert, M., Cousin, P., Benmokrane, B. (2008) "Potential Effects of Temperature and Moisture Absorption on Long-Term Behaviour of Composite Material." *Orgagec'08: Matériaux organiques pour la construction*. 27-29 août, Marne-La-Vallée, France. [CRSNG, FQRNT]
- 40- Robert, M., Benmokrane, B. (2008) "Characterization of FRP Reinforcing Bars After The Simulation of an Impact Collision." *5<sup>th</sup> Int Conf on Advanced Composite Materials in Bridges and Structures (ACMBS)*, 22-24 septembre, Winnipeg, Canada. [CRSNG, FQRNT]
- 41- Robert, M., Cousin, P., Benmokrane, B. (2008) "Use of Nanoclays composites to Enhance the Long-Term Durability of Structural FRP Composite Materials." *36<sup>th</sup> Annual Gen Meet and Confer Can Soc Civil Eng*, 10-13 juin, Québec, Canada. [CRSNG, FQRNT]
- 42- Robert, M., Cousin, P., Benmokrane, B. (2008) "Synthesis and Characterization of Different Thermoset/Mica Nanocomposites." *4<sup>th</sup> Int Conf on Advanced Engineered Wood & Hybrid Composites*, 6-10 Juin, Bar Harbor, États-Unis. [CRSNG, FQRNT]
- 43- Robert, M., Benmokrane, B. (2007) "Long-Term Durability of Mortar-Wrapped GFRP Reinforcing Bars." *3<sup>rd</sup> Int Conf on Durability & Field Applications of FRP Composites for Construction (CDCC)*, 22-24 mai, Québec, Canada. [CRSNG, FQRNT]
- 44- Robert, M., Roy, R., Benmokrane, B. (2007) "Glass Fiber Reinforced Polypropylene Thermoplastic Composite Durability Evaluation for a Bridge Deck Application." *3<sup>rd</sup> Int Conf on Durability & Field Applications of FRP Composites for Construction (CDCC)*, 22-24 mai, Québec, Canada. [CRSNG]
- 45- Cousin, P., Robert, M., Benmokrane, B. (2007) "Synthesis, Characterization and Water Absorption of Vinyl Ester/Clay Nanocomposites." *3<sup>rd</sup> Int Conf on Durability & Field Applications of FRP Composites for Construction (CDCC)*, 22-24 mai, Québec, Canada. [CRSNG, FQRNT]
- 46- Roy, R. J., Robert, M., Debaiky, A. S., Borazghi, H. (2006) "Static and Fatigue Testing of Innovative All-Composite Bridge Deck Slab." *3<sup>rd</sup> Int Conf on FRP Composites in Civil Eng (CICE)*, 13-15 décembre, Miami, États-Unis. [CRSNG, FQRNT]

### **Livre**

- 47- Robert, M. (2011) "Durability of Fiber Reinforced Polymers for Structural Applications: Theoretical and Experimental Approaches." Margit Schmöltz (éditeur), VDM Publishing, Saarbrücken, Allemagne, 145 p., ISBN : 978-3-639-35879-7.

### **Chapitres de livres**

- 48- Benmokrane, B., Robert, M. (2006) "Durability of Composites for Civil Structural Applications. Chapter IX: Durability of FRP Composite Internal Reinforcement for Concrete." Karbhari, V. M (éditeur), Woodhead Publishing ltd, Cambridge, England, 42 p.
- 49- Benmokrane, B., Robert, M., Youssef, T. (2006) "Durability of Fibre Reinforced Polymers in Civil Infrastructure. Chapter 3: Durability of FRP as Internal Reinforcement for Concrete." Banthia, N, Benmokrane, B, Karbhari, V (éditeurs), ISIS Canada Research Network, Winnipeg, Canada, 28 p.
- 50- Benmokrane, B., Wang, P., Pavate, T., Robert, M. (2006) "Durability of Materials and Structures in Building and Civil Engineering. Chapter 12: Durability of FRP Composites for Civil Infrastructure Applications." Yu, C. W. (éditeur), Whittles Publishing, Dunbeath, Scotland, 44 p.

### **Rapports techniques industriels ou gouvernementaux**

Rédaction et préparation de 24 rapports techniques pour des organismes publics (Créneau ACCORD, MTQ, Conseil national de recherches du Canada (CNRC)) et privés (RMC Composites, Encore3, Pultrall, BP Composites). Ces rapports contenaient des résultats expérimentaux portant sur la caractérisation de produits commerciaux et des données techniques de certification.