

## **CRIB - Liste des publications du CRIB 2015-2016**

### **Centre de recherche sur les infrastructures en béton**

#### **Publication dans des actes de colloque**

AzariJafari H, Yahia A et Ben Amor M (2015). « Comparative Attributional Life Cycle Assessment of Asphalt and Concrete Pavements », dans LCAXV conference, Octobre 2015, Vancouver, Canada

Balint S, Tagnit-Hamou A et Ben Amor M (2015). « Integration of Environmental Assessment from Engineering Point of View into the Development of Novel Supplementary Cementitious Materials », dans The 22nd Annual CEGSS Conference, Juin 2015, Montreal, Canada

AzariJafari H, Yahia A et Ben Amor M (2015). « Comparative life cycle environmental impacts of asphalt and jointed plain concrete pavement », dans The 22nd Annual CEGSS Conference, Juin 2015, Montreal, Canada

Lessard Y, Ben Amor M, Frenette C et Blanchet P (2015). « Environmental Performance of Green Building Certification Systems », dans 7th International Conference on Life Cycle Management, August 30 – September 2, 2015, Bordeaux, France

Edahbi M, Plante B, Bouzahzah H et Benzaazoua M (2015). « Mineralogical and Geochemical Study of Rare Earth Elements from a Carbonatite Deposit », dans Proceeding of the 13th Biennial SGA Meeting, 24-27 August 2015, Nancy, France, p. 997-1000

Chopard A, Benzaazoua M, Bouzahzah H, Plante B et Marion P (2015). « Predicted Effect of Ore Mineralogy on the Environmental Behaviour of Mine Wastes », dans Proceeding of the 13th Biennial SGA Meeting, 24-27 August 2015, Nancy, France, p. 1507-1510

Hasan MS, Benmokrane B, Elsafty A et Fam A (2016). « Bond Strength Durability of Basalt Bars in Concrete Subjected to Elevated Temperature and Alkaline Environment », dans Proceedings of the 8th International Conference on FRP Composites in Civil Engineering (CICE2014), december 14-16, Hong Kong, China

Benmokrane B et Mohamed H (2016). « Use of Fibre-Reinforced Polymer (FRP) Rebars for Building Durable Concrete Infrastructure », dans The Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016), Cape Town, South Africa

Ali A, Mohamed H et Benmokrane B (2016). « Shear Performance of RC Piles Reinforced with Glass FRP Bars and Spirals », dans Proceedings of the 7th International Conference on Advanced Composite Materials in Bridges and Structures, (ACMBS-VII), Vancouver, British Columbia, Canada

Hadhood A, Mohamed H et Benmokrane B (2016). « Strength of Circular High-Strength Concrete Columns Reinforced with GFRP Bars and Spirals. », dans Proceedings of the 7th

International Conference on Advanced Composite Materials in Bridges and Structures, (ACMBS-VII), Vancouver, British Columbia, Canada

Benmokrane B, Ali A, Robert M et Mohamed H (2016). « Mechanical and Durability Characteristics of Glass-FRP Bars with Different Types of Resins », dans Proceedings of the 7th International Conference on Advanced Composite Materials in Bridges and Structures, (ACMBS-VII), Vancouver, British Columbia, Canada

Hassan M, Fam A et Benmokrane B (2016). « A New Punching Shear Design Formula for FRP- Reinforced Interior Slab-Column Connections », dans Proceedings of the 7th International Conference on Advanced Composite Materials in Bridges and Structures, (ACMBS-VII), Vancouver, British Columbia, Canada

Benmokrane B, Mohamed H et Manalo A (2016). « Effect of Test Parameters on Pullout Strength of GFRP Headed Bars », dans Proceedings of the 7th International Conference on Advanced Composite Materials in Bridges and Structures, (ACMBS-VII), Vancouver, British Columbia, Canada

Arafa A, Farghaly A et Benmokrane B (2016). « Experimental Investigation of GFRP-Reinforced Concrete Squat Walls Subjected to Lateral Load », dans Proceedings of the 7th International Conference on Advanced Composite Materials in Bridges and Structures, (ACMBS-VII), Vancouver, British Columbia, Canada

Elgabbas F, Ahmed E et Benmokrane B (2016). « Flexural Performance of Concrete Beams Reinforced with Sand coated Basalt and Glass FRP Bars », dans Proceedings of the 7th International Conference on Advanced Composite Materials in Bridges and Structures (ACMBS-VII), Vancouver, British Columbia, Canada

Villemure FA, Fiset M, Bastien J, Mitchell D et Fournier B (2015). « Effet de la réaction alcalis-silice (RAS) sur l'adhérence des ancrages époxydiques de barres d'armatures. », dans 16e édition des Journées scientifiques du Regroupement francophone pour la recherche et la formation sur le béton (RF)2B, EPFL, Lausanne, Suisse

Duchesne J, Rodrigues A, Fournier B, Durand B, Rivard P et Shehata M (2015). « Development of a testing protocol for the evaluation of the oxidation potential of sulphide-bearing aggregates for use in concrete. », dans 5th International Conference on Construction Materials - Performance, Innovations, and Structural Implications (CONMAT), Whistler, British Columbia, Canada

Sanchez L, Fournier B, Jolin M, Bastien J et Mitchell D (2015). « Overall damage assessment of concrete distressed due to alkali-silica reaction and freezing and thawing cycles using microscopic and mechanical tools. », dans 5th International Conference on Construction Materials - Performance, Innovations, and Structural Implications (CONMAT), Whistler, British Columbia, Canada

Abouzied A et Masmoudi R (2015). « New High- Performance Rectangular FRP-Tube Beams Partially Filled with Concrete », dans ACI-Spring Convention Special-Publication, Towards Sustainable Infrastructure with Fiber Reinforced Polymers Composites, Kansas-City, USA

Villemure FA, Fiset M, Bastien J, Mitchell D, Fournier B et Bissonnette B (2016). « Study of bond between epoxy, steel reinforcing bars and concrete affected by alkali-silica reaction », dans 15th International Conference on Alkali-Aggregate reaction (ICAAR), Sao Paulo, Brésil, p. 1-10

Sanchez L, Fournier B, Bastien J, Mitchell D et Noël M (2016). « Overall assessment of an AAR affected viaduct "ROBERT BOURASSA/Charest" after nearly 50 years in service », dans 8th International Conference on Bridge Maintenance, Safety and Management, Foz do Uguacu, Brazil

Fiset M, Bilodeau S, Parenteau A, Bastien J et Mitchell D (2016). « Behavior of thick concrete member with unbonded transverse reinforcement », dans 11th fib International PhD Symposium in civil Engineering, Tokyo, Japan

Allard A, Bilodeau S, Bastien J et Fournier B (2016). « Evaluation of the material and structural performance of thick concrete slabs affected by Alkali-Silica reaction », dans 11th fib International Phd Symposium in civil Engineering, Tokyo, Japan, Technical University of Tokyo

Chouinard L, Bastien J, Clément A et Ali A (2015). « Statistical Tests for Evaluating Results from Non- Destructive Testing », dans 12th International Conference on Applications of Statistics and Probability in Civil Engineering, Vancouver, Canada

Shahsavari V, Bastien J, Chouinard L et Clément A (2015). « A novel response-based approach to localized low intensity damage of beam like structures », dans CANSMART, International Conference on Smart Materials and Structures,, Vancouver, Canada

Benmokrane B, Mohamed H et Ahmed E (2016). « Recent Developments on FRP Bars as Internal Reinforcement in Concrete Structures and Field Applications », dans 4th International Conference in Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, Nevada, USA

Guérin M, Mohamed H et Benmokrane B (2016). « Fatigue Behaviour of Underground Concrete Chambers Reinforced with GFRP Bars. », dans 5th International Structural Speciality Conference, Annual Conference of the Canadian Society of Civil Engineers, London, Ontario, Canada

Sanni BA, Mohamed H et Benmokrane B (2016). « Building Sustainable Continuously Reinforced Concrete Pavement using GFRP Bars: Case Study- Highway 40 West-Montreal, Canada », dans 5th International Structural Speciality Conference, Annual Conference of the Canadian Society of Civil Engineers, London, Ontario, Canada

Elgabbas F, Ahmed E et Benmokrane B (2016). « Flexural Behaviour and Bond-Dependent Coefficient of Basalt FRP Bars in Concrete Beams », dans 5th International Structural Speciality Conference, Annual Conference of the Canadian Society of Civil Engineers, London, Ontario, Canada

Mohamed K, Farghaly A et Benmokrane B (2016). « Proposed Strut and Tie Model for Deep Concrete Beams Reinforced with FRP Bars », dans 5th International Structural

Speciality Conference, Annual Conference of the Canadian Society of Civil Engineers, London, Ontario, Canada

Arafa A, Farghaly A et Benmokrane B (2016). « Behaviour of GFRP-Reinforced Concrete Squat Walls under Simulated Earthquake Load », dans 5th International Structural Speciality Conference, Annual Conference of the Canadian Society of Civil Engineers, London, Ontario, Canada

Sani A, Mohamed H, Thebeau D et Benmokrane B (2016). « Early-Age Strain and Cracking Behaviour of Continuously Reinforced Concrete Pavement with GFRP Bars Implemented on Highway 40 East in Montreal », dans Fifth International Conference on Construction Materials: Performance, Innovations, and Structural Implications (ConMat'15), Whistler, British Columbia, Canada

Hassan M et Benmokrane B (2015). « Physico- Mechanical and Durability Characteristics of Basalt Fiber Reinforced Polymer (BFRP) Reinforcing Bars », dans Fifth International Conference on Construction Materials: Performance, Innovations, and Structural Implications (ConMat'15), Whistler, British Columbia, Canada

Elgabbas F, Ahmed E et Benmokrane B (2015). « Laboratory Testing of Edge-Restrained Concrete Bridge Deck Slabs Reinforced with Basalt FRP Bars », dans Fifth International Conference on Construction Materials: Performance, Innovations, and Structural Implications (ConMat'15), Whistler, British Columbia, Canada

Mohammed M, Farghaly A et Benmokrane B (2015). « Simulated Seismic Behavior of GFRP-Reinforced Concrete Columns », dans Proceedings of the 11th Canadian Conference on Earthquake Engineering (11CCEE), Victoria, British Columbia, Canada

Farghaly A, Benmokrane B et Mohamed N (2015). « Seismic Response Modification Factors for GFRP- Reinforced Concrete Shear Walls », dans Proceedings of the 11th Canadian Conference on RESEARCH CONTRIBUTIONS BENBR8901 Brahim Benmokrane 11 Earthquake Engineering (11CCEE), Victoria, British Columbia, Canada

Ahmed E, Benmokrane B et Deblois R (2015). « Field Testing of GFRP-Reinforced Concrete Bridges in Quebec », dans Proceedings of the Seventh International Conference on Structural Health Monitoring of Intelligent Infrastructures (SHMII 2015), Torino, Italie

Manalo A, Maranan G, Karunasena W, Benmokrane B, Mendis P et Lutz D (2015). « An Overview of the Use of Composite Rebars as Reinforcement in Geopolymer Concrete Structures », dans The 2015 Composites Australia CRC-ACS Conference, Gold Coast, Australia

Ali A, Mohamed H et Benmokrane B (2016). « “Shear Strength of Circular Concrete Beams Reinforced with GFRP Bars and Spirals », dans 5th International Structural Speciality Conference, Annual Conference of the Canadian Society of Civil Engineers, London, Ontario, Canada

Hadhood A, Mohamed H et Benmokrane B (2016). « Behaviour of Circular FRP-Reinforced Concrete Columns under Eccentric Loading », dans 5th International Structural Speciality

Conference, Annual Conference of the Canadian Society of Civil Engineers, London, Ontario, Canada

Hassanein A, Farghaly A et Benmokrane B (2016). « Enhancing the Deformation Capacity of Concrete Shear Walls Reinforced with GFRP Bars », dans Enhancing the Deformation Capacity of Concrete Shear Walls Reinforced with GFRP Bars, London, Ontario, Canada

Mohamed HM et Benmokrane B (2015). « Building Durable Concrete Infrastructure Using Fibre- Reinforced Polymer (FRP) Bars », dans 2nd R.N. Raikar International Conference and BanthiaBasheer International Symposium on Advances in Science and Technology of Concrete, Mumbai, India

Maranan G, Manalo A, Karunasena W, Benmokrane B et Mendis P (2015). « “Comparison and Shear Behaviour of Geopolymer Concrete Beams with GFRP and Steel Transverse Reinforcements » », dans 12th International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures (FRPRCS-12) and the 5th Asia-Pacific Conference on Fiber Reinforced Polymers in Structures (APFIS-2015) Joint Conference, Nanjing, China

Ali A, Mohamed H, Cousin P, Elsafty A et Benmokrane B (2015). « Physical, Mechanical, and Durability Characterization of Carbon FRP Cable », dans Third Conference on Smart Monitoring Assessment and Rehabilitation of Civil Structures (SMAR 2015), Antalya, Turkey

Maranan G, Manalo A, Karunasena W, Benmokrane B et Mendis P (2015). « “Flexural Response of GFRP-Reinforced Geopolymer Concrete Beams » », dans CONCRETE 2015 International Conference, Melbourne, Australia

Mohamed N, Farghaly A et Benmokrane B (2015). « Innovative Bond Test of FRP Bar in Concrete Under Reversed Cyclic Loading », dans Fifth International Conference on Construction Materials: Performance, Innovations, and Structural Implications (ConMat'15), Whistler, BC, Canada

Arafa A, Farghaly A, Ahmed E et Benmokrane B (2015). « UHPRFC Joint Between GFRPRC Precast Bridge Deck Panels », dans Fifth International Conference on Construction Materials: Performance, Innovations, and Structural Implications (ConMat'15), Whistler, BC, Canada

Aoude H, Hosinie M, Cook WD et Mitchell D (2016). « Effect of Transverse Reinforcement Detailing on the Axial Load response of UHPC Columns », dans First International Interactive Symposium on UHPC, Des Moines, Iowa, États-Unis

El-Hassan H et Shao Y (2016). « Innovative CO<sub>2</sub> Utilization By Carbonation Curing of Lightweight Concrete Made with Portland Limestone Cement », dans AIChE Annual Meeting, San Francisco, Californie, États-Unis

Abouzied A et Masmoudi R (2016). « Deflection of Rectangular Concrete-Filled FRP-Tube Beams », dans Proceedings of the 7th International Conference on Advanced Composite Materials for Bridges and Structures (ACMBS-VII), Vancouver, Colombie-Britannique, Canada, p. 1-7

Abdeldaim A et Masmoudi R (2016). « Behaviour of FRP-reinforced CFFT Columns under axial compression loading », dans Proceedings of the Annual Conference of the CSCE 2016, London, Ontario, Canada, p. 1-11

Abouzied A et Masmoudi R (2016). « Flexural Behaviour of Rectangular FRP-Tubes Filled with Reinforced Concrete: Experimental and Analytical Investigations », dans Proceedings of the Annual Conference of the CSCE 2016, London, Ontario, Canada, p. 1-11

Zaidi A, Boussouar A, Masmoudi R et Mouattah K (2016). « Simulation of Concrete Strength Variation Effect on Thermal Cracking in GFRP Bars- Reinforced Concrete Beams in Hot Climate », dans Proceedings of the 7th International Conference on Advanced Composite Materials for Bridges and Structures (ACMBS-VII), Vancouver, Colombie-Britannique, Canada

Liu Y, Boyd A, Shaikhon O et Komar A (2016). « The Implementation of Surface Resistivity in Field Applications », dans Structural Faults & Repair - 2016, ASCE, Edinburgh, Royaume-Uni, p. 1-9

Lagier F, Massicotte B et Charron JP (2016). « Publié 2016 Behavior of tension lap splice specimens in UHPFRC », dans BEFIB 2016: 9th Rilem international symposium on fiber reinforced concrete, Vancouver, Colombie-Britannique, Canada, p. 75-89

Plagué T, Desmettre C et Charron JP (2016). « Effect of fiber orientation on the water permeability of reinforced concrete subjected to tensile loading », dans BEFIB 2016: 9th Rilem international symposium on fiber reinforced concrete, Vancouver, Colombie-Britannique, Canada

Daviau-Desnoyers D, Charron JP, Massicotte B, Rossi P et Tailhan JL (2016). « Creep behavior of a SFRC under service and ultimate bending loads », dans FRC Creep, Valencia, Espagne, p. 223-235

Verger-Leboeuf S, Charron JP et Massicotte B (2016). « Conception de joints de connexion en BFUP pour des dalles de pont préfabriquées », dans International Conference RF2B, Paris, France

Achour R, Zentar R, Rivard P et Abriak NE (2016). « Evaluation environnementale des bétons à base de sédiments marins », dans 5th International Symposium on Sediment Management, Montréal, Québec, Canada

Sow D, Carvajal C, Rivard P, Breul P, Peyras L et al. (2016). « Modélisation de la variabilité spatiale de la résistance au cisaillement des discontinuités des fondations rocheuses de barrages », dans 9e Journées Nationales, Fiabilité des Matériaux et des Structures, Nancy, France

Soliman N, Omran A et Tagnit-Hamou A (2016). « Green Ultra-high performance glass concrete », dans 1st International Interactive Symposium on UHPC, Des Moines, Iowa, États-Unis

Wilson W, Katarbarwa JP, Tagnit-Hamou A et Aïtcin PC (2016). « Improving the quality of fired clay bricks using rice husks: a Rwandese pilot projet », dans Proceedings of Advances in Cement and Concrete Technology in Africa Conference, Dar es Salaam, Tanzanie

Soliman N et Tagnit-Hamou A (2016). « Using Ultra Fine Glass Powder Silica to Produce Ultra-High Performance Concrete », dans 8th International Conference on Nano-Technology in construction, Sharm El-Sheikh, Égypte

Lessard JM, Cloutier J, Tagnit-Hamou A et Ben Amor M (2016). « Environmental benefits of using glass powder and Metakaolin as supplementary cementitious material and FRP as reinforcement: Case of underground manholes », dans Forum international sur la gestion du cycle de vie des produits et services, Montréal, Québec, Canada

Lessard JM et Tagnit-Hamou A (2016). « Utilisation de cendres de biomasse dans la construction d'une dalle d'entreposage en béton compacté au rouleau », dans Colloque interfacultaire des cycles supérieurs de l'Université de Sherbrooke, Sherbrook, Québec, Canada

Lessard JM et Tagnit-Hamou A (2016). « Optimisation des cendres volantes et grossières de biomasse dans les formulations de bétons moulés à sec pour la préfabrication de pavés de béton », dans Rencontre étudiante du Centre de Recherche sur les Infrastructures en Béton, Montréal, Québec, Canada

Hosseinpour M, Khayat KH et Yahia A (2016). « Numerical simulation of self-consolidating concrete flow as a heterogeneous material in L-Box set-up », dans 8th International RILEM Symposium on Self- Compacting Concrete & 6th North American Conference on Design and Use of Self-Consolidating Concrete, SCC2016, Washington D.C., États-Unis, p. 561-571

Hosseinpour M, Khayat KH, Yahia A et Mesbah HA (2016). « Homogeneous analysis of self- consolidating concrete (SCC) casting in reinforced beam using computational fluid dynamics (CFD) », dans 8th International RILEM Symposium on Self- Compacting Concrete & 6th North American Conference on Design and Use of Self-Consolidating Concrete, SCC2016, Washington D.C., États-Unis, p. 549-559

Mostafa A et Yahia A (2016). « Effect of cement type and solid concentration on kinetics of structural build-up of cement suspensions », dans 8th International RILEM Symposium on Self-Compacting Concrete & 6th North American Conference on Design and Use of Self-Consolidating Concrete, SCC2016, Washington D.C., États-Unis, p. 407-416

Esmailkhanian B, Diederich P, Khayat KH, Yahia A et Wallevik OH (2016). « Effect of Particle-Size Distribution and Lattice Effect on Stability of Self- Consolidating Concrete », dans 8th International RILEM Symposium on Self-Compacting Concrete & 6th North American Conference on Design and Use of Self-Consolidating Concrete, SCC2016, Washington D.C., États-Unis, p. 96-106

Daddy K, Diederich P, Yahia A et Chekired M (2016). « Influence of Shape, Size, and Solid Concentration of Particles on Rheological Properties of Self-Consolidating Mortar », dans 8th International RILEM Symposium on Self-Compacting Concrete & 6th North American

Conference on Design and Use of Self-Consolidating Concrete, SCC2016, Washington D.C., États-Unis, p. 439-448

Daddy K, Diederich P, Yahia A et Chekired M (2016). « A Disphasis Approach to Evaluate the Rheological Properties of Self-consolidating Concrete », dans 8th International RILEM Symposium on Self-Compacting Concrete & 6th North American Conference on Design and Use of Self-Consolidating Concrete, SCC2016, Washington D.C., États-Unis, p. 449-459

Mesbah H, Laraba A et Yahia A (2016). « Flowability Publié 2016 and Stability Performance of Self-Consolidating Concrete in Full-Scale Beam », dans 8th International RILEM Symposium on Self-Compacting Concrete & 6th North American Conference on Design and Use of Self-Consolidating Concrete, SCC2016, Washington D.C., États-Unis, p. 665-674

Ben Ftima M, Sadouki H et Bruhwiler E (2016). « Development of a computational multi-physical framework for the use of nonlinear explicit approach in the assessment of concrete structures affected by alkali-aggregate reaction », dans 9th International Conference on Fracture Mechanics of Concrete and Concrete Structures (Framcos-9), Berkeley, Californie, États-Unis

Allard A, Fournier B, Bastien J, Bissonnette B, Sanchez L, Duchesne J et al. (2016). « Evaluation of the degree of damage caused by alkali-silica reaction in a highway pavement: a case study », dans 15th International Conference on Alkali- Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Allard A, Pissot F, Fournier B, Bastien J et Bissonnette B (2016). « Performance evaluation of thick concrete slabs affected by alkali-silica reaction (ASR) – Part I: Materials aspects », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Bilodeau S, Allard A, Bastien J, Pissot F, Fournier B, Mitchell D et Bissonnette B (2016). « Performance evaluation of thick concrete slabs affected by alkali- silica reaction (ASR) – Part II: Structural aspects », dans 15th International Conference on Alkali- Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-9

Blais-Dufour G, Conciatori D, Sorelli L et Corvez D (2016). « Modified chloride migration test on UHPFRC samples », dans 9th Rilem International Symposium on Fiber Reinforced Concrete (BEFIB), Vancouver, Colombie-Britannique, Canada, RILEM Publications

Beaudoin G, Nowamooz A, Palla Assima G, Lechat K, Gras A, Entezari A, Babacar Kandji EH, Awah AS, Horswill M, Turcotte S, Larachi F, Dupuis C, Molson J, Lemieux JM, Maldague X, Plante B, Bussière B, Constantin M, Duchesne J, Therrien R et Fortier R (2016). « Passive mineral carbonation of Mg-rich mine wastes by atmospheric », dans Energy Procedia, 13th International Conference on Greenhouse Gas Control Technologies, GHGT-13, Lausanne, Suisse, Elsevier, p. 6083-6086

Gagnon A, Jolin M et Duchesne J (2016). « Développement de mélanges de béton projeté à valeurs environnementales ajoutées », dans 17e édition des Journées scientifiques du



Regroupement francophone pour la recherche et la formation sur le béton (RF)2B, IFSTTAR, Marne-la-Vallée, France

Rodrigue A, Fournier B et Duchesne J (2016). « Mechanical performance and flow of sustainable alkali-activated slag concrete », dans Fourth International Conference on sustainable Construction Materials and Technologies (SCMT4), Las Vegas, Nevada, États-Unis, International Committee of the SCMT conferences, p. 699-706

Beauchemin S, Fournier B et Duchesne J (2016). « Evaluation of the concrete prism and the accelerated mortar bar tests for assessing the potential alkali-silica reactivity of recycled concrete aggregates », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Rodrigues A, Duchesne J et Fournier B (2016). « Evaluation of the deleterious character of siliceous aggregates incorporating sulphide minerals », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-9

Fecteau PL, Fournier B et Duchesne J (2016). « Use of SCMs on ACR-affected concrete: expansion and damage evaluation through the Damage Rating Index (DRI) », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Lafrenière C, Duchesne J et Fournier B (2016). « Effectiveness of alkali-activated slag based binders and fly-ash based geopolymers against alkali silica reaction », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Fournier B, Sanchez L, Duchesne J et Goyette S (2016). « Evaluation of the available alkali content in concrete through a modified hot-water extraction method », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Plusquellec G, Geiker MR, Duchesne J, Lindgard J et De Weerd K (2016). « Review of methods to determine the pH and the free alkali content of the pore solution in concrete », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-9

Deng M, Fournier B, Huang X, Fecteau PL, Lan X et Lu D (2016). « The role of alkali-dolomite reaction in deterioration of an airport pavement », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Durand B et Fournier B (2016). « 20-year results of an in-situ monitoring study of large concrete electrical tower foundations affected by alkali-silica reaction (ASR) », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Fournier B, Chevrier R, Bilodeau A, Nkinamuvanzi PC et Bouzoubaa N (2016). « Comparative field and laboratory investigations on the use of supplementary cementing materials (SCMs) to control alkali-silica reaction in concrete », dans 15th International Conference on Alkali-Aggregate Reaction(AAR)inConcrete,SaoPaulo,Brésil, p. 1-10

Ideker JH, Drimalas T, Fournier B, Folliard KJ, Hooton D et Thomas MD (2016). « Managing alkali- aggregate reactivity: North American approach », dans 15th International Conference on Alkali- Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-9

Jan L, Ronning TF, Thomas MDA, Silva AS et Fournier B (2016). « ASR – Performance testing: main findings in the Norwegian COIN project », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Lu D, Kang X, Lu Y, Fecteau PL et Fournier B (2016). « Coexistence of ASR and DEF in a precast pre-stressed concrete element in China », dans 15th International Conference on Alkali-Aggregate Reaction(AAR)inConcrete,SaoPaulo,Brésil, p. 1-8

Medeiros S, Fernandes I, Nunes JC, Fournier B, Soares D, Silva AS et Ramos V (2016). « The study of the Azorean volcanic aggregates from the point of view of ASR », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Moffat EG, Thomas MDA, Hayman S, Fournier B, Ideker J et Fletcher J (2016). « Remediation strategies intended for the reconstruction of the ASR-induced Mactaquac Dam », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-8

Noël M, Martin RP, Sanchez L, Fournier B, Bastien J et Mitchell D (2016). « Structural implications of internal swelling reactions in concrete : a review », dans 15th International Conference on Alkali- Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-11

Martin RP, Sanchez L, Fournier B et Toutlemonde F (2016). « Diagnosis of AAR and DEF: comparison of residual expansion, stiffness damage test and damage rating index », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Sanchez L, Fournier B, Drimalas T, Bastien J, Mitchell D et Noel M (2016). « Semi-quantitative condition assessment of concrete distress through the Damage Rating Index », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Sanchez L, Fournier B, Jolin M, Bastien J, Mitchell D et Noel M (2016). « The use of the Damage Rating Index (DRI) for the condition assessment of aging distressed concrete », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Sanchez L, Fournier B, Bastien J, Mitchell D et Noël M (2016). « Thorough evaluation of bridge columns affected by alkali-silica reaction (ASR) », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Sanchez L, Fournier B, Jolin M, Bastien J, Mitchell D et Noel M (2016). « Thorough characterization of concrete damage caused by AAR through a multi- level approach », dans 15th International Conference on Alkali-Aggregate Reaction (AAR) in Concrete, Sao Paulo, Brésil, p. 1-10

Basso-Trujillo P, Jolin M, Massicotte B et Bissonnette B (2016). « Fundamentals of shotcrete application and bond strength in reinforcing bars », dans Proceedings of the 11th fib International Ph.D. Symposium in Civil Engineering, Tokyo, Japon, p. 393-399

Duc Pham T, Sorelli L, Fafard M et Dung NT (2016). « Investigation on the Non-linear Creep in Concrete Structures due to Hydro-Mechanical Couplings », dans International Conference on Advances in Mining and Tunneling (ICAMT 2016), Visakhapatnam, Inde

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