



Name: Mohammed Sonebi
E-mail: m.sonebi@qub.ac.uk;
Citations: <http://scholar.google.com/citations?user=IGPDXqAAAAAJ>
Personnel website: [http://pure.qub.ac.uk/portal/en/persons/mohammed-sonebi\(0f56ac89-3afa-47fc-b30f-b1944199aff\).html](http://pure.qub.ac.uk/portal/en/persons/mohammed-sonebi(0f56ac89-3afa-47fc-b30f-b1944199aff).html)

ACADEMIC QUALIFICATIONS

July 2006, Postgraduate Certificate in Higher Education, Queen’s University Belfast, UK

Feb. 2006, Managing safely: Institution of Occupational Safety and Health, Belfast, UK.

1997, PhD, Civil Eng., University of Sherbrooke, Sherbrooke, Canada

1992, MSc, Civil Eng., University of Sherbrooke, Sherbrooke, Canada

Dr **Mohammed Sonebi** has been thoroughly enjoying this academic career though, having authored/co-authored more than **210 peer-review journal and conference papers** and **22 books/chapters with high citations (2495, h-index:27)**.

He is a **Fellow RILEM, RILEM Regional Convenor of Middle East and North Africa** (International Union of Laboratories and Experts in Construction Materials, Systems and Structures), **Chair of RILEM TC-266-Mesearment of rheolgical properties of CBM, Member of RILEM Development Advisory Committee (DAC)**, member of several **RILEM committees TCs (145, 197, 205, 209, 222, 228, 233, 236, 266, 275, 276)**, **Vice-Chair** of American Concrete institute (ACI) 552-Cemetitious Grouting, Voting member and member of several committees of **American Concrete Institute (ACI, 236, 237, 238, 241, 552)**, and member of **ASTM, ISHMII (International Society for Structural Health Monitoring of Intelligent Infrastructure)** and **fib (federation internationale du béton)**.

He was awarded the **Palmer Prize** with **ICE** for the Best Paper in **Structures and Building Journal (2017)**. He is the **Chair of Editorial Panel of ICE Construction Materials Journal** and he was shortlisted for **VC’s Impact 2014** at Queen’s University Belfast on “**Advanced Technology Category**”

He was also awarded with Bullivant Taranto for the **Best KTP Partnership and Excellence Engineering Awards 2013**, a Finalist for **Parliamentary Awards 2016** in category **Innovation Leading to New Markets** at Westminster.

In 2002, Dr M. Sonebi awarded a certificate by the **Commission of the European Union** for **Brite-Euram project** on Self-Compacting Concrete as one of ten finalist projects considered for the **Descartes Prize 2002**.

This year 2019, he is **chairing 3rd International Conference Bio-Based Building Materials (ICBBM2019)** and also he chaired the second and first RILEM International Conference on Bio-Based Building Materials (ICBBM2017 and ICBBM2015).

He is a recipient of several fundings from the European Union (EU), EPSRC, Innovate (UK), KTP, the British Council, the Royal Society, and Fonds du Quebec. He established strong research links with Universities across the world; USA, Canada, Mexico, Brazil, The Netherland, Belgium, Germany, France, Italy, Ireland, Iceland, Sweden, Norwegian, Denmark, Spain, Portugal, Switzerland, Slovenia, Czech Republic, China, Turkey, UAE, Ukraine, New Zealand, Malaysia, South Africa, North Africa.

Actually, he is a Visiting Professor at Ryerson University (Canada) 2019-2022 and he was also invited a Professor at University Sherbrooke (Canada) in 2010.

He delivered a several Plenary Keynotes (Europe, North and South America, Asia and Africa). He was also sit on several organising, technical and scientific committees of International Conferences.

Research Grants at Queen's University Belfast

- 2016-2019, **ARTEMIS** – Advanced Reinforcements for the Replacement of Metal in STRuctures -NIACE funded project with industrial collaborators McFarland Ass. Ltd, CCP Grandsen, MJM.
- 2019-2021, Knowledge Transfer Partnerships (KTP-UK) with Tracey Concrete.
- 2019-2021, Knowledge Transfer Partnerships (KTP-UK) with Acheson and Clover
- 2013-2017, **Coordinator** of over **€1million**, European project **FP7-IAPP-Marie Curie**, with 4 partners (QUB-UK, Banagher Concrete-Ireland, (Polytechnic of Milan and Azichem Ltd-Italy).
- 2016-2018, Knowledge Transfer Partnerships (KTP-UK) with Quinn Building Products.
- 2016-2018, Knowledge Transfer Partnerships (KTP-UK) with FPMcCann Ltd.
- 2016-2016 - British council for Exploratory grant for Ukraine.
- 2014-2015, Fusion industrial project with Peter O'Donnell, Republic of Ireland.
- 2014, Invest NI, Wave trial project. Wave Energy System Validation at Early Age.
- 2014-2016, Knowledge Transfer Partnerships (KTP-UK) with Moore Precast Concrete.
- 2014-2015, Knowledge Transfer Partnerships (KTP-UK) with Larsen Manufacturing Ltd.
- 2009-2012, Knowledge Transfer Partnerships (KTP) with Bullivant Tarrant.
- 2007-2011, **£2.1 million project**, Technology Strategy Board (**TSB**), "**Lightweight low energy concretes for use in novel structures**", with Partners: Macrete Ltd, Creagh

Concrete, City University London, Railway Network, Department for Regional Development (DRD), Arup. Role: **Principal leader** to develop lightweight self-compacting concrete with Creagh.

- 2007-2010, Knowledge Transfer Partnerships (KTP) with Industrial Partner Macrete Ltd.

Teaching:

- CIV10122 – Design and Communications (2015-date)
- CIV1018 – Construction Materials and Soils (2015-Date)
- CIV2062 – Structure Mechanics (2018-date)
- ARC2023 – Technology and Environment 2 – (2016-2017)
- CIV3007 - Design 3 – MEng/BEng students (2011-2016)
- CIV2007 - Design 2 with associated lab for Civil Engineering (2008-2015)
- ARC3001 - Advanced Technology & Environment 3 (i) – Structures (2011-2012)
- CIV4012 - Design & Communication 4, MEng students - (2010, 2012)
- CIV3006 - Final Year Projects (2005-date)
- CIV7052 - Structural Repairs and Maintenance, 2008 - date, MSc module.
- CIV4033 - Structural Repairs and Maintenance, 2014 - date, MEng module.

Recent Publications

- 1 M. Sonebi, A. Perrot, “Effect of mix proportions on rheology and permeability of cement grouts containing viscosity modifying admixture”, *Construction and Building Materials*, Volume 212, 10 July 2019, pp. 687-697.
- 2 L. Ferrara, P. Deegan, A. Pattarini, M. Sonebi, S. Taylor, “Recycling ceramic waste powder: effects its grain-size distribution on fresh and hardened properties of cement pastes/mortars formulated from SCC mixes”, *Journal of Sustainable Cement-Based Materials*, <https://www.tandfonline.com/doi/abs/10.1080/21650373.2018.1564396>.
- 3 Y. Temsah, A. Jahami, J. Khatib, M. Sonebi “Numerical Derivation of Iso-Damaged Curve for a Reinforced Concrete Beam Subjected to Blast Loading”, *Proceedings in Materials Science, Engineering and Chemistry, MATEC Web of Conferences 149, 02016 (2018)*, 5p., <https://doi.org/10.1051/mateconf/201814902016>.
- 4 L. Dvorkin, N. Lushnikova, M. Sonebi “Application areas of phosphogypsum in production of mineral binders and composites based on them: a review of research results”, *Proceedings in Materials Science, Engineering and Chemistry, MATEC Web of Conferences 149, 01012 (2018)*, 9p., <https://doi.org/10.1051/mateconf/201814901012>.
- 5 L. Dvorkin, N. Lushnikova, O. Bezusyak, M. Sonebi, J. Khatib “Hydration characteristics and structure formation of cement pastes containing metakaolin”, *Proceedings in Materials Science, Engineering and Chemistry, MATEC Web of Conferences 149, 01013 (2018)*, 8p., <https://doi.org/10.1051/mateconf/201814901013>.
- 6 Dal Lago, B., Taylor, S., Deegan, P., Ferrara, L., Sonebi, M., Crossett, P., Pattarini, A., “Full-scale testing and numerical analysis of a precast fibre reinforced self-compacting concrete slab pre-stressed with basalt fibre reinforced polymer bars”, *Journal Composites Part B, Engineering*, Vol. 128, July 2017, pp. 120-133 <http://dx.doi.org/10.1016/j.compositesb.2017.07.004>.

- 7 Deegan, P., Taylor, S., Sonebi, M., Ferrara, L., Dal Lago, B., Pattarini, A., “An experimental study towards steel-free precast concrete elements”, Vol. 51, No. 6, Concrete, July 2017, pp. 38-41.
- 8 Ferraris, CF., Billberg, P., Ferron, R., Feys, D., Hu, J., Kawashima, S., Koehler, E., Sonebi, M., Tanesi, J., Tregger, N., “Role of Rheology in Achieving Successful Concrete Performance, Concrete International, V. 39, N. 6, 2017, pp. 43-51.
- 9 Amziane S., Collet F., Lawrence M., Magniont C., Picandet V., Sonebi M. “Recommendation of the RILEM TC 236-BBM: characterisation testing of hemp shiv to determine the initial water content, water absorption, dry density, particle size distribution and thermal conductivity”, Materials and Structures, 50:167, June 2017, doi:10.1617/s11527-017-1029-3.
- 10 Page, J., Sonebi, M., Amziane, S. “Design and multi-physical properties of a new hybrid hemp-flax composite material”, Construction and Materials Journal, Vol. 139, 2017, pp. 502-512.
- 11 Sonebi, M., Bassuoni, M., Yahia, A. “Pervious Concrete: Mix Design, Properties and Applications”, RILEM Technical Letters, Vol. 1, 2016, pp. 109-115. <http://dx.doi.org/10.21809/rilemtechlett.2016.24>
- 12 Page, J., Sonebi, M., Amziane, S. “Improvement of hemp concrete mechanical performances by using a viscosity-modifying admixture”, Revue des Composites et des Matériaux Avancés, Vol. 26/3-4 - 2016 - pp.349-366, doi:10.3166/rcma.26.349-366
- 13 Sonebi, M., Grünewald, S., Cevik, A., Walraven, J. “Neural network technique: modelling fresh properties of self-compacting concrete”, Computers and Concrete, 2016, Vol. 18, No. 6, pp. 903-920. DOI: 10.12989/cac.2016.18.6.903.
- 14 Amziane, S., Sonebi, M., “Overview on Biobased Building Material made with plant Aggregate”, RILEM Technical Letters, Vol. 1, 2016, pp. 31-38.
- 15 Niyigena, C., Amziane, S., Chateaneuf, A., Arnaud, L., Bessette, L., Collet, F., Lanos, C., Escadeillas, G., Lawrence, M., Magniont, C., Marceau, S., Pavia, S., Peter, U., Picandet, V., Sonebi, M., Walker, P., “Variability of the mechanical properties of hemp concrete”, Materials Today Communications, Vol. 7, 2016, pp. 122-133.
- 16 Sonebi, M., Cevik, A., Grünewald, S., Walraven, J. "Modelling the fresh properties of self-compacting concrete using support vector machine approach", Construction and Building Materials 106, 2016, 55-64.
- 17 Johnston, R.P.D., Lim, J.B.P., Lau, H.H., Xu, Y., Sonebi, M., Armstrong, C.G., Mei, C.C. “Finite-element investigation of cold-formed steel portal frames in fire”, Proceedings of the Institution of Civil Engineers - Structures and Buildings, Vol. 169, No. 1, 2016, pp. 3-19.
- 18 García-Taengua, E., Sonebi, M., P. Crossett, Taylor, S., Ferrara, L., Deegan, P., Pattarini, A. “Performance of sustainable SCC mixes with mineral additions for use in precast concrete industry”, Journal of Sustainable Cement-Based Materials, Vol. 5, No. 3, 2016, pp. 157-175.