

<b>Shane Newell</b>	
<b>Department</b>	<b>Building &amp; Civil Engineering</b>
<b>Campus</b>	<b>Dublin Road</b>
<b>Email</b>	<b>shane.newell@gmit.ie</b>
<b>Tel</b>	<b>+353-91-742880</b>
<b>Research Interest</b>	Structural Engineering, Construction Materials, Structural Health Monitoring, Engineering Education, Smart Materials, Sustainable Design
<b>Publications</b>	<p><u>Peer Reviewed</u></p> <p>Ignatavicius S, Kavanagh A, Colleran D, Brennan M, Newell S (2020) Experimental investigation of optimum properties and conditions for use of anionic emulsions in road maintenance applications. Civil Engineering Research in Ireland (CERI 2020) &amp; Irish Transport Research Network (ITRN 2020) Conference. Cork Institute of Technology, Ireland, 2020-08-27- 2020-08-28, pp. 448-455.</p> <p>Newell S, Goggins J (2019) Experimental study of hybrid precast concrete lattice girder floor at construction stage. <i>Structures</i> Vol. 20, pp. 866-885 (<a href="https://doi.org/10.1016/j.istruc.2019.06.022">https://doi.org/10.1016/j.istruc.2019.06.022</a>)</p> <p>Newell S, Goggins J (2018) Investigation of thermal behaviour of a hybrid concrete floor using embedded sensors. <i>International Journal of Concrete Structures and Materials</i> 12:66 (<a href="https://doi.org/10.1186/s40069-018-0287-y">https://doi.org/10.1186/s40069-018-0287-y</a>)</p> <p>O’Kelly-Lynch G, Newell S, Goggins J (2018) Laboratory testing of the structural behaviour of precast concrete lattice girder slabs at construction stage. Civil Engineering Research in Ireland (CERI 2018) Conference. University College Dublin, Ireland, 2018-08-29- 2018-08-30, pp. 590-595.</p> <p>Dunne D, Newell S (2018) The use of streaming current monitors in optimising coagulant dosage in Water Treatment Plants. Civil Engineering Research in Ireland (CERI 2018) Conference. University College Dublin, Ireland, 2018-08-29- 2018-08-30, pp. 528-533.</p> <p>Newell S, Goggins J (2017) Real-time monitoring of concrete–lattice-girder slabs during construction. <i>Proceedings of the Institution of Civil Engineers - Structures and Buildings</i> Vol. 170, Issue 12, pp. 885-900. (<a href="https://doi.org/10.1680/jstbu.16.00198">https://doi.org/10.1680/jstbu.16.00198</a>)</p> <p>Newell S, Goggins J, Hajdukiewicz M (2016) Real-time monitoring to investigate structural performance of hybrid precast concrete educational buildings. <i>Journal of Structural Integrity and Maintenance</i> Vol. 1, Iss. 4, pp. 147-155. (<a href="http://dx.doi.org/10.1080/24705314.2016.1240525">http://dx.doi.org/10.1080/24705314.2016.1240525</a>)</p> <p>De La Torre O, Newell S, Flanagan M, Goggins J (2016) Potential applications for image-based systems in structural engineering. Civil Engineering Research in Ireland (CERI 2016) Conference. NUI Galway, Ireland, 2016-08-29- 2016-08-30, pp. 377-382.</p>

Newell S, Goggins J, Hajdukiewicz M, Holleran D (2016) Behaviour of hybrid concrete lattice girder flat slab system using insitu structural health monitoring. Civil Engineering Research in Ireland (CERI 2016) Conference. NUI Galway, Ireland, 2016-08-29- 2016-08-30, pp. 623-629.

Newell S (2015) An exploration of attainment in Leaving Certificate Mathematics and correlation, if any, with progression from First Year Civil Engineering in GMIT. GMIT Research e-Journal Vol. 1, May 2015

Goggins J, Newell S, King D, Hajdukiewicz M (2014) Real-time monitoring of a hybrid precast and in situ concrete flat slab system. Civil Engineering Research in Ireland (CERI 2014) Conference. Queens University Belfast, Northern Ireland, 2014-08-28- 2014-08-29, pp. 321-326.

Newell S, O' hEachteirn P (2001) Finite element analysis of steel flush endplate connections. Irish Society for Scientific & Engineering Computation Annual Symposium (ISSEC) University College Dublin, Ireland, May 2001

Other Publications:

Newell S, Goggins J (2017) Embedded instrumentation as a teaching tool for construction students. Engineers Journal, April 2017.  
(<http://www.engineersjournal.ie/2017/04/11/embedded-instrumentation-teaching-tool-construction-engineering/>)

Newell S (2017) GMIT construction students weigh in for load test as part of their degree studies. Irish Building Magazine, March 2017.  
(<https://www.irishbuildingmagazine.ie/2017/03/03/gmit-construction-students-weigh-in-for-load-test-as-part-of-degree-studies/>)