

Irene Hayden	
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Research Interest	My research areas include online and blended learning in higher education, e-portfolios for professional development and work based learning, visual assessments including virtual reality and the development of a visual building regulation pedagogy for online and blended professional development learning in the Built Environment. I also have laboratory-based research interests in the application of concrete for heat attenuation, porous concrete for use in sustainable urban drainage systems and in building physics laboratories.
Publications	(Hayden, 2011, 2017a, 2017b, 2018, 2019b, 2019a, 2020c, 2020a, 2020b, 2021c, 2021, 2021a; Cloonan and Hayden, 2018)(Hayden, 2021b)

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Hayden, I. (2011) *Building Integrated Solar Water Heating Systems*. Available at: https://docs.google.com/leaf?id=0B2rLVqHSQuZ4MGQ0ZDBhMDktNmM3OS00YjY3LTlkY2QtNGZkMjAyMmFiODVi&hl=en_US.

Hayden, I. (2017a) "Evaluation of the effectiveness of blended learning using 'Moodle' with first year undergraduate students," *GMIT research e-Journal*, 3(1), pp. 1–36.

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Hayden, I. (2019a) "An evaluation of the design and use of applied visual interactive resources for teaching building regulations in higher education built environment programmes," *Architectural Engineering and Design Management*, 15(3), pp. 159–180.

Hayden, I. (2019b) "Teaching and learning online using visual building regulations," in *eighth International Conference of the International Congress of Architectural Technology (ICAT 2019)*. Odense, Denmark.

Hayden, I. (2020a) "An investigation into the experience of online learning using a visual building regulation pedagogy and its position in the wider professional development landscape," *Architectural Engineering and Design Management*.

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Hayden, I. (2021a) "An investigation into the experience of online learning using a novel visual building regulation pedagogy," *Studies in Technology Enhanced Learning. CfP: Visual Literacies and Visual Technologies for Teaching, Learning and Inclusion*.

Hayden, I. (2021b) "Policy Issues and Strategic Pathways in Professional Development in the Built Environment," in *11th International Construction Management Conference Day*. Galway: GMIT, pp. 1–15.

Hayden, I. (2021c) *Remote assessment - Creating, correcting and preventing collusion, Engineers Ireland*. Available at: <https://www.digitaled.ie/remote-assessment-creating-correcting-and-preventing-collusion-academic-society-webinar/>.

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