

## Sustainable Infrastructure Research & Innovation Group (SIRIG)

### Research Publication & Dissemination

Details of book chapters, peer-review journal papers, conference papers, abstracts, posters and research seminars and technical papers by staff and postgraduate students of the School for the period 2008 to date are provided below.

### Books & Book Chapters

- Pakrashi, V., **Ruane, K., Jaksic, V.**, et al. (2023). Some challenges and opportunities around lifetime performance and durability of wind turbines. T. M. Letcher (Ed.), In: *Wind energy engineering: a handbook for onshore and offshore wind turbines* (2nd ed.): Academic Press. ISBN (print) 9780323993531
- **Vardy, S.**, McCloskey, P. (2022). Fragile Cartographies of Border Fictioning. in: Zaman, Q. M. and Hall, G. (ed.) *Border Urbanism: Transdisciplinary Perspectives*, Switzerland, Springer.
- Conference Proceedings – Civil Engineering Research in Ireland 2020; Editors **Ruane K, Jaksic, V**; ISBN 978-0-9573957-4-9.
- Conference Proceedings – Civil Engineering Research in Ireland **2018**; Editors Pakrashi V, Keenahan J, Ghosh B, **Ruane K**, McCann B, Li Z, Amato G, McNally C, Gonzalez A; ISBN 978- 0-9573957-3-2.
- **Mulrooney, Sarah (2020)**. ‘Shared Vision, Shared Courtyards: Dundanion Court, Cork 1964-1968.’ *Out of the Ordinary: Irish Housing Design 1955-1980* (ed. Gary Boyd, Michael Pike and Brian Ward). Routledge.
- **O’Shaughnessy, Jason M. (2019)**. ‘John Hejduk and Samuel Beckett: Going on, in Silence and Lateness.’ In *The Place of Silence* (ed. Mark Dorrian and Christos Kakalis). Bloomsbury Publishing. Chapter selected for publication. (Forthcoming).
- **Jaksic, V.**, Kennedy, C.R., Grogan, D.M., Leen, S.B., and Ó. Brádaigh, C.M., ‘Influence of Composite Fatigue Properties on Marine Tidal Turbine Blade Design’ in *Durability of Composites in a Marine Environment 2 (Solid Mechanics and Its Applications)*. vol. 245, ed. D. Peter and Y. D. S. Rajapakse: Springer International Publishing. DOI. 10.1007/978-3-319-65145-3, **2017**. <http://www.springer.com/us/book/9783319651446>

## Conference Organiser

- Conference Proceedings – Civil Engineering Research in Ireland 2020; Editors **Ruane K, Jaksic, V**; ISBN 978-0-9573957-4-9.
- Conference Proceedings – Civil Engineering Research in Ireland **2018**; Editors Pakrashi V, Keenahan J, Ghosh B, **Ruane K**, McCann B, Li Z, Amato G, McNaly C, Gonzalez A; ISBN 978-0-9573957-3-2.
- **Harrington, J., Power, N.**, ENVIRON2018 Conference, ‘Arriving at a Sustainable Future’, Cork Institute of Technology and the Environmental Sciences Association of Ireland, March **2018**.
- **O’Shaughnessy, J.M.**, Kakalis, Christos (2016). Conference Title: The Place of Silence: Experience, Environment and Affect. The Edinburgh School of Architecture and Landscape Architecture (University of Edinburgh). <https://placeofsilenceconferenceblog.wordpress.com/>
- **O’Shaughnessy, J.M.** (2016). All Ireland Annual Architecture Thesis Symposium. CCAE (CIT/UCC).
- **Walsh, D.**, Bridge and Concrete Research in Ireland Conference, BCRI2010, Cork Institute of Technology and University College Cork, August **2010**.

## Peer-Review Journal Papers, 2007-present

- Shi, W., Fenton, O., **Ashekuzzaman, S.M.**, Daly, K., Leahy, J.J., Khalaf, N., Chojnacka, K., Numviyimana, C., Warchoń, J., & Healy, M.G. (2023). Phosphorus fertiliser equivalent value of dairy processing sludge-derived STRUBIAS products using ryegrass (*Lolium perenne* L.) and spring wheat (*Triticum aestivum*). *Journal of Plant Nutrition and Soil Science*, 1–10. <https://doi.org/10.1002/jpln.202300164>
- **Muhammad Yasir, Andrew Macilwraith, Conan O’Ceallaigh & Kieran Ruane (2023)** Effect of protective cladding on the fire performance of vertically loaded cross-laminated timber (CLT) wall panels, *Journal of Structural Integrity and Maintenance*, DOI: 10.1080/24705314.2023.2189683
- **Ruane, K, Bank L et al. (2023)** Construction and Cost Analysis of Blade Bridges Made From Decommissioned FRP Wind Turbine Blades. *Sustainability* 2023, 15, 3366. <https://doi.org/10.3390/su15043366>
- Wisudawan, A., **Jaksic, V.**, Pakrashi, V., & Murphy, J. (2023). Variability of Kinetic Response Estimates of Froude Scaled DeepCwind Semisubmersible Platforms Subjected to Wave Loading. *Journal of Offshore Mechanics and Arctic Engineering*, 146(2). doi:10.1115/1.4063180
- Bank, L., **Ruane, K**, et al. (2022) Case Studies of Repurposed FRP Wind Blades for Second-life New Infrastructure. *Current Perspectives and New Directions in Mechanics, Modelling and Design of Structural Systems - Zingoni (ed) 2022* (Copyright the Authors), ISBN 978-1 -003-34044-3.
- **Ruane, K.**, Zhang, Z., Nagle, A., Huynh, A., Alshannaq, A., et al. (2022). “*Material and Structural Characterization of a Wind Turbine Blade for use as a Bridge Girder*” *Transport Research Record* I-9, Transportation Research Board (TRB). <https://journals.sagepub.com/doi/full/10.1177/03611981221083619>
- **Harrington, J., O’ Sullivan, R.**, Hamilton, A., Lord, R., Torrance, K., Wijdeveld, A., Debuigne, T., Masson, E., **Batel, B.**, (2022) A downscaled economic model validated and applied to sediment management projects in Ireland and Scotland, *Journal of Soils and Sediments*, 22, 2900-2911 (2022), 10.1007/s11368-022-03267-z.
- Lemière, B.; Laperche, V.; Wijdeveld, A.; Wensveen, M.; Lord, R.; Hamilton, A.; Haouche, L.; Henry, M.; **Harrington, J.; Batel, B.**; et al. (2022) On-Site Analyses as a Decision Support Tool for Dredging and Sustainable Sediment Management. *Land* 2022, 11, 274. <https://doi.org/10.3390/land11020274> Academic Editors: D. Ary A.
- Shi W, Healy M, **Ashekuzzaman SM**, Daly K, Fenton, O, (2022). Mineral fertiliser equivalent value of dairy processing sludge and derived biochar using ryegrass (*Lolium perenne* L.) and spring wheat (*Triticum aestivum*). *Journal of Environmental Management*, 321, 116012.

- Ryan D, Karpinska A, Forrestal PJ, **Ashekuzzaman SM**, Kakouli-Duarte T, Dowling DN, Germaine KJ, (2022). The Impact of Bio-Based Fertilizer Integration Into Conventional Grassland Fertilization Programmes on Soil Bacterial, Fungal, and Nematode Communities. *Frontiers in Sustainable Food Systems*, doi: 10.3389/fsufs.2022.832841
- **Basu, B.** Das Bhowmik, R. and Arumugam S. (2022), Changing seasonality of annual maximum floods over the conterminous US: Potential Drivers and Regional Synthesis, *Journal of Hydrologic Engineering* (accepted).
- **Basu, B.**, Morrissey, P. and Gill, L. (2022), Application of nonlinear time series and machine learning algorithms for forecasting groundwater flooding in a lowland karst area, *Water Resources Research*, 58(2), e2021WR029576, . <https://doi.org/10.1029/2021WR029576>.
- Vasudevan, M., **Basu, B.**, Pilla. F., Mcnabola, A. (2022), Development and validation of a computational fluid dynamics modelling methodology for isolated and urban street canyon configurations using wind tunnel measurements, *International Journal of Computational Methods and Experimental Measurements*, 10(2), pp.104-116.
- Sannigrahi, S., **Basu, B.**, Sarkar Basu, A., Pilla, F. (2022), Development of automated marine floating plastic detection system using Sentinel-2 imagery and machine learning models, *Marine Pollution Bulletin*, 178, 113527, <https://doi.org/10.1016/j.marpolbul.2022.113527>.
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- **Egan A.**, Saju A., Sigurnjak I., Meers E., **Power N.**, (2022) 'What are the desired properties of recycling-derived fertilisers from an end-user perspective?', *Cleaner and Responsible Consumption* (2022) 5, 100057, <https://doi.org/10.1016/j.clrc.2022.100057>
- **O'Donnell C., Barnett, D., Harrington J., Power N., (2021)** "The Extended Effect of Top-Dressed Recovered Struvite Fertiliser on Residual Irish Grassland Soil Phosphorus Levels Compared to Commercial Phosphorus Fertiliser", *Agronomy*-1487517; <https://doi.org/10.3390/agronomy12010008>
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- **O'Donnell C., Egan A., Harrington J., Barnett D., Forrestal P., Power N.,** 'An overview on deficit and requirements of the Irish national soil phosphorus balance' *Science of the Total Environment*, 785 (2021), 147251. <https://doi.org/10.1016/j.scitotenv.2021.147251>
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- Juan T. Garcia, **Joseph R. Harrington,(2019)** Fine Sediment Modeling During Storm-Based Events in the River Bandon, Ireland, *Water* 2019, 11(7), 1523; <https://doi.org/10.3390/w11071523>
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## Technical Reports

**Harrington, J., Rehman, I.**, Ecosystem Services Model Allowing Monetary Valuation and its Application to the La Rance Estuary, Final SURICATES Report, December **2023**.

**Harrington, J., Batel, B.**, Downscaled Economic Model (SedEcon) adapted and applied to the La Rance Estuary, Final SURICATES Report, December **2023**.

**Harrington, J., Batel, B.** et al., Business Plan Development For Potential New Projects, Final SURICATES Report, September **2023**.

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**Harrington, J., Batel, B.** et al., Integrated tool linking direct and local global cost optimisation, Final SURICATES Report, September **2023**.

**Harrington, J., Garcia, J., Batel, B., & Szacsuri, G.**, 'Sediment Monitoring & Behaviour for Post-River Improvement Works on the River Bandon', 4th Interim Report, submitted to ByrneLooby/OPW, July **2023**.

**Egan, A., Power, N.**, 'Inventory Report on Market Research on RDFs – (Demand Chain) in the Horticulture Sector', ReNu2Farm EU NWE Interreg Programme, February **2023**.

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**A. Egan, J. Harrington, B. Bremner, D. Barnett, N. Power**, 'Stakeholder Engagement of Phosphorous Recovery in a Rural Context for Ireland', WP LT Activity 2 Deliverable 2.3, SIRIG MTU, July **2021**

**J. Harrington, D. Barnett, N. Power, A. Siddiqui, C. Mebarki (Veolia) & C. O'Donnell**, 'Struvia Pilot Plant Demonstrator: Phosphorus Recovery from the Macroroom Wastewater Treatment

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**J. Harrington, A. Siddiqui, N. Power, D. Barnett**, 'Rural Wastewater Treatment in Ireland', SIRIG MTU, July **2021**

Egan, A., **Power, N.**, 'Acceptance of Recycling Derived Fertilisers by Farmers/Stakeholders', ReNu2Farm EU NWE Interreg Programme, December 2020.

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Harte,A., Robinson,B., **Macilwraith,A.**, Jacob,M. 'Timber in Multistorey Construction'. Published in **2017** by COFORD, Department of Agriculture, Food and the Marine, Dublin, Ireland. ISBN: 978-1-902696-80-5.

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## **Abstracts/Posters/Presentations/Research Seminars, 2007-present**

- **Vardy, S., McCloskey, P.** 'Eile (Border-Fictioning)' Creative Enquiry Theory Forum, School of Architecture, University of Sheffield, UK. November **2023**.
- **Jaksic V.** EirBLADE: National REpository of Decommissioned Wind Turbine BLADES IEA Wind Task 45: Recycling Wind Turbine Blades General Assembly; Bristol, UK **2023**.
- **Jaksic V.** WindLEDeRR: A comprehensive decision support tool for end-of-life Wind turbines of Ireland; Lifetime Extension Decommissioning Repowering Repurposing. IEA Wind Task 45: Recycling Wind Turbine Blades General Assembly; Bristol, UK **2023**.
- **Abed M, Ruane K, Leahy P, Jaksic V.** Classification of Decommissioned Wind Turbine Blades for Re-Purposing. Wind Energy Ireland Annual Conference; Dublin, Ireland **2023**.
- **Muhammed Y,** Review of Key Considerations and Experimental Study on Cross-Laminated Timber (CLT) in Fire, School of Building & Civil Engineering Research Seminar Series, November **2023**.
- **Horgan E,** Cork Community Land Trust: Exploring A Not-For-Profit, Community-Led Housing Model for Cork, School of Building & Civil Engineering Research Seminar Series, November **2023**.
- **Farea A,** Barriers to BIM Adoption and Digital Transformation within Construction Industry of Pakistan and Ireland, School of Building & Civil Engineering Research Seminar Series, October **2023**.
- **Crowley R,** Study of Fine Sediment Transport in Irish River Catchments, School of Building & Civil Engineering Research Seminar Series, October **2023**.
- **Ullah R,** Build Digital Project – Enterprise Gap Analysis Toolkit, School of Building & Civil Engineering Research Seminar Series, October **2023**.
- **Mitra A,** Repurposing of Decommissioned Wind Turbine Blades – Project Progress Report, School of Building & Civil Engineering Research Seminar Series, October **2023**.
- **Batel, B., Harrington, J.,** A Model to Assess the Economic Benefits of Sediment Management Projects - SedEcon, Presented at the Circular Economy Workshop at SedNet2023, University of Lisbon, Portugal, September **2023**.
- **Batel, B., Harrington, J.,** Economic Modelling and Assessment of the beneficial Use of Dredged Sediments at the La Rance Estuary, France. Infrastructure Sediments: From Resource to Territorial Use, Suricates Closing Event Conference, Saint-Malo, Brittany, France, August, **2023**
- **Rehman I., Batel, B., Harrington, J.,** Assessing Beneficial Use of Dredged Sediments at the La Rance Estuary using an Ecosystem Services Model. Infrastructure Sediments: From Resource to Territorial Use, Suricates Closing Event Conference, Saint-Malo, Brittany, France, August,

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- **Muhammad Y, O’Ceallaigh C, Ruane K, Macilwaith A**, Experimental Study on the Behaviore of CLT Wall-Floor Connection in Shear, School of Building & Civil Engineering Research Seminar Series, April 2023.
- **Abed M, Jasksic V, Ruane K, Leahy P**, Development of Decision-Making Tool for Repurposing Decommissioned Wind Turbine Blades for Other Applications, School of Building & Civil Engineering Research Seminar Series, April 2023.
- **Otreba M**, Drones for VET, School of Building & Civil Engineering Research Seminar Series, April 2023.
- **Busby K, Finegan E, Harrison J, Horgan E, Mulrooney S, O’Sullivan G, Vardy S**, Diversity of Research in Architecture, School of Building & Civil Engineering Research Seminar Series, April 2023.
- **Ullah R**, International Best Practice in Digital Adoption within AEC Sector – Build Digital Study, School of Building & Civil Engineering Research Seminar Series, March 2023.
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- **O’Carroll G**, Data Risk Management – How to Protect the Data which You Control, School of Building & Civil Engineering Research Seminar Series, March 2023.
- **Ruane K**, Rammed Earth Construction – The Kinship Ecolab Project, School of Building & Civil Engineering Research Seminar Series, March 2023.
- **O’Leary D**, Creating Replacement On-Campus Experiential Architectural Technology Work Placement Module during Covid-19 Restrictions – Comparative Assessment of Student Experience, School of Building & Civil Engineering Research Seminar Series, March 2023.

- **Smith N**, Research Landscape in MTU and Beyond – Opportunities to Build Globally Connected Region with Bright Future, School of Building & Civil Engineering Research Seminar Series, February **2023**.
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- **Muhammad Y, Macilwraith A, O’Ceallaigh C, Ruane K**, Effect of Protective Cladding on Fire Performance of Vertically Loaded Cross-Laminated Timber (CLT) Wall Panels, School of Building & Civil Engineering Research Seminar Series, November **2022**.
- **Egan A, Power N**, ReNu2Farm CAP- Exploring Demand for Recycling Derived Fertilisers in Horticulture Sector across North – West Europe, School of Building & Civil Engineering Research Seminar Series, November **2022**.
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- **Rehman I**, SURICATES – Sediment Mangement and the La Rance, France Case Study, School of Building & Civil Engineering Research Seminar Series, May **2022**.
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- **Batel B, Harrington J**; "An Economic Analysis Tool for Assessing Benefits from Dredging Projects"; School of Building & Civil Engineering and the Sustainable Infrastructure Research & Innovation Group, Munster Technological University, Cork, Ireland; Presented at Circular@WUR2022, Wageningen, The Netherlands, 13th April **2022**.
- **Crowley R**, ‘HydroSed - Hydrological and Sediment Impacts of Forestry Operations’, School of Building & Civil Engineering Research Seminar Series, March **2022**.
- **Ruane K**, ‘Re-Wind Project - Re-Use of Decommissioned Wind Turbine Blades as Structural Elements for Pedestrian Bridges’, School of Building & Civil Engineering Research Seminar Series, March **2022**.
- **Lacey S**, ‘Who is responsible for Research Integrity?’, School of Building & Civil Engineering

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- **Batel B**, 'SURICATES - Economic Modelling Application to Sediment Management Projects and Case Studies', School of Building & Civil Engineering Research Seminar Series, March **2022**.
- **Yasir M**, 'Fire Performance of Cross-Laminated Timber Structure', School of Building & Civil Engineering Research Seminar Series, March **2022**.
- **Finnegan E**, 'An empirical investigation into current and future overheating frequency in nZEB and Passivhaus dwellings in Ireland', School of Building & Civil Engineering Research Seminar Series, February **2022**.
- **Egan A**, Phos4You - Phosphorous Recovery from Rural Wastewater in Ireland and Scotland - A Stakeholders' Perspective, School of Building & Civil Engineering Research Seminar Series, February **2022**.
- **O'Donnell C**, 'Phos4You - Closing the modern Irish municipal wastewater phosphorus cycle', School of Building & Civil Engineering Research Seminar Series, February **2022**.
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- **Harrington, J., O'Sullivan R.,** Hamilton, A., **Brano B.**, 'Economic Modelling and Assessment of the Economic Benefits of Beneficial Use of Dredged Sediment', 12th International SedNet Conference (online), Lille, France, June **2021**.
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Assessing Benefits from Dredging Projects’, ENVIRON 2021, University College Cork, Ireland (on-line), June **2021**.

- Egan A., **Power N.**, ‘What are the Desired Properties of Recycling Derived Fertilisers from an End-User Perspective’, *Environ2021*, University College Cork, June **2021**.
- **O’Donnell, C., Harrington, J. Barnett, D., Power, N.**, ‘Phosphorous recovery from Irish municipal wastewater effluent using locally sourced recycled calcium products’, ENVIRON 2021, University College Cork, Ireland (on-line), June **2021**.
- **Muhammad, Y., Macilwraith, A., Ruane, K., Walsh, D.**, ‘Experimental and numerical investigation on fire performance of cross – laminated timber panels’, ENVIRON 2021, University College Cork, Ireland (on-line), June **2021**.
- **Egan, A., Harrington, J., Barnett, D., Power, N.**, ‘What are Irish Stakeholders’ Opinions of Phosphorous Recovery from Rural Wastewater in Ireland?’, ENVIRON 2021, University College Cork, Ireland (on-line), June **2021**.
- **O’Sullivan, R., Harrington, J. Brano B.**, ‘An Ecosystem Services Approach Applied to Sediment Management’, ENVIRON 2021, University College Cork, Ireland (on-line), June **2021**.
- **Crowley, R., Harrington, J. O’Sullivan J., Kelly-Quinn, M., Turner, J., Tobin B., O’Loughlin F.**, ‘Effects of forestry operations on hydrology and fine sediment in lotic waterbodies in Ireland’, ENVIRON 2021, University College Cork, Ireland (on-line), June **2021**.
- **Otreba M.**, ‘Smart Systems and BIM’ School of Building & Civil Engineering Research Seminar Series, February **2021**.
- **Ruane K.**, ‘The Re-Wind Project: The Re-use of Decommissioned Wind Turbine Blades as Structural Elements for Pedestrian Bridges’ School of Building & Civil Engineering Research Seminar Series, February **2021**.
- **Horgan E.**, ‘Sunday’s Well Houses’ School of Building & Civil Engineering Research Seminar Series, February **2021**.
- **Murray S.**, ‘Offsite Construction: What does it mean?’ School of Building & Civil Engineering Research Seminar Series, March **2021**.
- **Barry J.**, ‘An Introduction to Offshore Construction’ School of Building & Civil Engineering Research Seminar Series, March **2021**.
- **Batel B., Harrington J.**, ‘The SURICATES Project - Sediment Uses as Resources in Circular and Territorial Economies’ School of Building & Civil Engineering Research Seminar Series, March **2021**.
- **O’Sullivan R., Harrington J.**, ‘An Ecosystem Services Application to a Sediment Management Project in Ireland’ School of Building & Civil Engineering Research Seminar

Series, March **2021**.

- **Crowley R., Harrington J.**, 'HydroSed - Hydrological & Sediment Impacts of Forestry Operations' School of Building & Civil Engineering Research Seminar Series, March **2021**.
- **O'Donnell C., Harrington J., Barnett D., Power N.**, 'Struvia Demonstrator: Phosphorus Recovery from Macroom Wastewater Treatment Plant' School of Building & Civil Engineering Research Seminar Series, March **2021**.
- **Yasir M., Ruane K.**, 'Fire Performance of Cross-Laminated Timber (CLT) Structure' School of Building & Civil Engineering Research Seminar Series, February **2021**.
- **Mulrooney S.**, 'CIT Learning Spaces Conference 2020: Interdisciplinary exchange of research on Pedagogy and Space' School of Building & Civil Engineering Research Seminar Series, April **2021**.
- **Moloney M.**, 'Engineering Insights – #Virtual Site Visits' School of Building & Civil Engineering Research Seminar Series, April **2021**.
- **McKenna T.**, 'Combining Sustainable Design Education with Research on Pathway to Zero Energy Historic Buildings' School of Building & Civil Engineering Research Seminar Series, April **2021**.
- Glavin P., **Macilwraith A., Walsh D., Ruane K.**, 'Modular Construction - Advanced Manufacturing Research' School of Building & Civil Engineering Research Seminar Series, April **2021**
- **Moloney, M.**, Virtual Site Visits, Learning Spaces Conference 2020, Teaching & Learning Unit, Cork Institute of Technology, 11<sup>th</sup> December **2020**.
- **McKenna, T.**, Real & Virtual Learning Spaces, Learning Spaces Conference 2020, Teaching & Learning Unit, Cork Institute of Technology, 11<sup>th</sup> December **2020**.
- **Harrington, J.**, 'Sediment Uses as Resources in Circular and Territorial Economies (SURICATES)', presentation to the EPA National Advisory Committee on Disposal at Sea, November **2020**.
- **Harrington, J.**, 'Field Monitoring, Modelling & Assessment of Sediments on the River Bandon', presentation to the OPW and Byrne Looby, November **2020**.
- **Power, N.**, ReNu2Farm: Closing the nutrient cycle – How can RDFs make it happen? Results from a farmer's survey in NWE', European Sustainable Nutrient Initiative (ESNI), Ghent, Belgium (on-line), October **2020**.
- **O'Sullivan, R., Harrington, J.**, The Challenges of Beneficially using Dredge Sediment in Ireland, ENVIRON **2020**, Dublin City University, Ireland (on-line), October 2020.

- **Egan, A., Power, N.,** ‘Irish Farmers’ Willingness to use Recycling Derived Fertiliser Products’, ENVIRON **2020**, Dublin City University, Ireland (on-line), October 2020.
- O’Donnell, C., **Power, N., Barnett, D., Harrington, J.** ‘The drivers and advancement of a phosphorus deficient growing medium, for the testing of recovered phosphorus fertilisers’, ENVIRON **2020**, Dublin City University, Ireland (on-line), October 2020.
- **Egan, A.,** ‘Irish Farmers’ Willingness to use Recycling Derived Fertiliser Products’, School Research Seminar Series, CIT, Ireland (on-line), October **2020**.
- **O’Donnell, C.,** ‘The drivers and advancement of a phosphorus deficient growing medium, for the testing of recovered phosphorus fertilisers’, School Research Seminar Series, CIT, Ireland (on-line), October **2020**.
- **O’Sullivan, R., Harrington, J.,** The Challenges of Beneficially using Dredge Sediment in Ireland, School Research Seminar Series, CIT, Ireland (on-line), October **2020**.
- **Power, N.,** ‘Farmers Attitudes to Recycling Derived Fertiliser’, Cre Composting Conference 2020, Ireland (on-line), September **2020**.
- Lagrange H., Harms I., **Power N., Egan A.,** ‘Recyclage des nutriments, des pilotes de production aux utilisations au champ Utilisation des engrais issus du recyclage : perception des agriculteurs et cartographie du potentiel d’utilisation’, Rencontres Comifer Gemas, France, Nov **2019**.
- **Harrington, J.,** ‘SIRIG research addressing the World’s Challenges’, CIT Research Week Event, CIT, November **2019**.
- **O’ Donnell, C., Power, N., Barnett, D., Harrington, J.,** ‘Implementation of the Struvia Phosphorous Recovery Plant at an Irish Waste Water Treatment Plant’, 5<sup>th</sup> European Conference on Sludge Management, University of Liege, Belgium, October **2019**.
- **O’ Donnell, C., Power, N., Barnett, D., Harrington, J.,** ‘Recovered Phosphorous Fertiliser and the Effects on Residual Soil P Indices Compared to Commercial P Fertiliser’, School of Building & Civil Engineering Research Seminar Series, October **2019**.
- **Egan, A., Power, N.,** ‘Use of Recycling-Derived Fertilisers in North West Europe – Farmers’ Response, School of Building & Civil Engineering Research Seminar Series, October **2019**.
- **MOLONEY, M., COLEMAN, D., WALSH, D.,** Transition to CIT – The 1st year experience within the Department of Civil, Structural and Environmental Engineering, European First Year Experience Conference, CIT, 17th-19th June **2019**.
- **Moloney, M., Welch, N., McKenna, T,** 2019 Inspiring the next generation of STEM students - showcase of STEM promotion for female transition year Students, European First Year Experience Conference, CIT, 17th-19th June **2019**.

- **MOLONEY, M, COLEMAN, D, WALSH, D.**, Enhancing the 1st year Student Experience within an Engineering Department, European First Year Experience Conference, CIT, 17th-19th June **2019**.
- **O'Donnell, C., Power, N., Barnett, D., Harrington, J.**, 'Characterisation of residual soil P indices using recovered P fertiliser as a comparison to TSP', Environ2019, Institute of Technology Carlow, April **2019**.
- **Power, N., Jaksic, V.**, Harms, I., Laub, K., Lagrange, H., 'Closing the nutrient cycle: what are the properties required by farmers, to encourage the use of recycling-derived fertilisers in North West Europe?' Environ2019, Institute of Technology Carlow, April **2019**.
- Harms, I., **Power N.**, Sultanbaeva, R., Coopmam, F., Bouthier, A., 'Exploring the demand for recycling-derived nutrients and organic matter in Northwest Europe' Environ2019, Institute of Technology Carlow, April **2019**.
- **O' Sullivan, R., Harrington, J.**, 'The SURICATES Project – An approach to beneficial use of dredged sediment for flood protection and erosion control', ENVIRON 2019, Institute of Technology Carlow, April **2019**.
- **Batel, B., O'Sullivan, R., Harrington, J.**, 'The SURICATES Project – Sediment Uses as Resources in Circular and Territorial Economies, School of Building & Civil Engineering Research Seminar Series April **2019**.
- **Power, N.**, 'Closing the Nutrient Cycle', School of Building & Civil Engineering Research Seminar Series, April **2019**.
- O' Suilleabháin C., **Ruane, K.**, 'Design and Construction of Remediation of Haulbowline East Tip, School of Building & Civil Engineering Research Seminar Series, March **2019**.
- Power, W., 'Introduction to Lean Construction – Theory and Practice', School of Building & Civil Engineering Research Seminar Series, March **2019**.
- Masson, E., **Harrington, J.**, Widjeveld, A., Lord, R., Groot, H., Debuigne, T., Wensveen, M., Hamilton, A., Benzerzour, B., O'Connor, M., and Lemiere, B., 'Suricates: Demonstration through Pilots of Sediment Reuse for Coastal Defense or Climate Change Mitigation', 10th International Conference on the Remediation and Management of Contaminated Sediments, February, **2019**, New Orleans, USA.
- **Finnegan, E.**, 'Impact of Climate Change on Overheating Frequency in nZEB Dwellings', School of Building & Civil Engineering Research Seminar Series, February **2019**.
- **Busby, K., Harrison, J.**, 'Universal Design in Architectural Education – Liaison on "Live Projects"', School of Building & Civil Engineering Research Seminar Series, February **2019**.

- **O' Donnell, C., Power, N., Barnett, D., Harrington, J.,** 'Characterisation of Residual Soil P Indices using Recovered P Fertiliser as Comparison to TSP ', School of Building & Civil Engineering Research Seminar Series, February **2019**.
- **Drome, L.,** 'Bridge Maintenance Strategy Based on Dataset of 1400 Bridge Inspections', School of Building & Civil Engineering Research Seminar Series, February **2019**.
- **Moloney, M., Welch, N., Loftus, M.,** 'Academia and Industry collaborating to Turn Tide for Females in STEM', School of Building & Civil Engineering Research Seminar Series, December **2018**.
- **Garcia, J.,** 'Sewer Processes – Field Experiences in South-East Spain', School of Building & Civil Engineering Research Seminar Series, December **2018**.
- **O'Sullivan, G,** 'Institutional properties in Cork County Borough', School of Building & Civil Engineering Research Seminar Series, **2018**
- **Moloney, M., Walsh, D.,** 'Successful Development of Positive Health and Safety Culture in Students of Civil Engineering Department', School of Building & Civil Engineering Research Seminar Series, November **2018**.
- **Ryan, D., Rogers, A.,** 'Induction for First Year Students in the Architecture Factory', School of Building & Civil Engineering Research Seminar Series November **2018**.
- **Merritt, S.,** 'Development of Industrial Water Risk Management Framework through Practical Based Action Research, School of Building & Civil Engineering Research Seminar Series November **2018**.
- **Ryan D., Rogers, A.,** 'Best practice in student-centred approaches in education and training', QQI Conference, Dublin, November **2018**.
- **Busby, K., Harrison, J.,** 'Universal Design in Architectural Education – community liaison on 'live projects'. Universal Design and Higher Education in Transformation Congress, Dublin Castle, October **2018**
- **O'Donnell, C., Power, N., Barnett, D., O'Dwyer, D., Harrington, J.,** 'A Comparative Study of Recovered Struvite vs Commercial P Fertilizer on Grass Growth Trials', IAPB 2018, Dublin, August **2018**.
- **O' Dwyer, D., O' Donnell, C, Barnett, D., Harrington, J.,** 'Phosphorous Recovery and the Phos4You Project in Ireland', European Waste Water Management Conference, Manchester, July **2018**.
- Ó'Riain, M, **2018**, The International Style Performance over Pattern, Passive House Plus Magazine, p.22 Issue 27.
- Ó'Riain, M, **2018**, The Utopian Usonian, Passive House Plus Magazine, p22 Issue 26.

- Ó'Riain, M, **2018**, The House of Tomorrow 1933, Passive House Plus Magazine, p.20 Issue 25.
- Ó'Riain, M, **2018**, The Dover Sun House, Passive House Plus Magazine, p22 Issue 24.
- **Harrison, J.**, Invited presenter at UNESCAP Facilities Management Conference, "Achieving Inclusive and Accessible Built Environments", United Nations Conference Centre, Bangkok, May **2018**.
- **Harrington, J.**, 'Sediment Management Research and the SURICATES Project', School of Building and Civil Engineering Research Seminar Series, CIT, May **2018**.
- **Hodge, D.**, 'Load Distribution Characteristics of Hollow Core Concrete Floors', School of Building and Civil Engineering Research Seminar Series, CIT, May **2018**.
- **O'Brien, P.**, 'Social Acceptance of Renewable Energy – Exploring a Citizen Centric Paradigm', School of Building and Civil Engineering Research Seminar Series, CIT, May **2018**.
- **Moloney, M.**, **2018**, 'The Power of Women in STEM', IWISH, CIT & Industry collaborative showcase. International Women's day conference. University of Limerick.
- **Moloney, M.**, **2018**, Showcasing IWISH, CIT & Industry collaboration – The Power of Women in STEM. International Women's day conference. Pepsico Little Island Cork.
- **Moloney, M.**, & Welch, N., **2018**, Showcasing the CIT IWish campus week. University of Limerick: Athena Swan Committee.
- **Harrington, J.**, 'European Best Practice for Inland Waterway Maintenance Dredging Works', ENVIRON2018, Cork Institute of Technology, March **2018**.
- **Merritt, S.**, Keely, N., Stockil, K., **Power, N.**, **Harrington, J.**, 'A methodology for water risk management in the Irish industrial sector', ENVIRON2018, Cork Institute of Technology, March **2018**.
- **O'Sullivan, G.**, 'Institutional properties in Cork County Borough', ENVIRON 2018, Cork Institute of Technology, March **2018**.
- **Finegan, E.**, 'Comparative Analysis of Simulated and Measured Overheating Patterns in NZEB Dwelling using PassivHaus Standard Protocols', School of Building and Civil Engineering Research Seminar Series, CIT, March **2018**.
- **O'Donnell, C.**, **Power, N.**, **Barnett, D.**, **O'Dwyer, D.**, **Harrington, J.**, 'Grass Growth Trials

for Recovered P Fertilizers', Environ 2018, Cork Institute of Technology, March **2018**.

- **O'Donnell, C., Power, N., Barnett, D., O'Dwyer, D., Harrington, J.**, 'Grass Growth Trials for Recovered P Fertilizers', Environ 2018, Cork Institute of Technology, March **2018**.
- **O'Dwyer, D., O'Donnell, C.**, 'Phosphorous Recovery and the Phos4You Project', School of Building and Civil Engineering Research Seminar Series, CIT, March **2018**.
- **O'Shaughnessy, Jason M. (2018)**. MOSSTROINFORM Exhibition. Moscow, Russia. Invited Public Lecture.
- **O'Shaughnessy, Jason M. (2018)**. Making cities "Morocco Biennale". Casablanca, Morocco. Invited Public Lecture.
- **Harrington, J.**, Working in the Interred North West Europe Programme, Workshop on European Research Projects, Cork Institute of Technology, November **2017**.
- **Harrison, J.**, Workshop Presentation and Facilitator: "Putting disability-inclusive development into practice". Ways to enhance accessibility and meaningful participation of persons with disabilities in decision making processes at all levels. United Nations ESCAP Inter-ministerial Meeting. Beijing 29 November **2017**.
- **Jaksic, V.**, 'Upscaling of Tidal Turbine Blades: Glass or Carbon Fibre Reinforced Polymers (cost modelling)?', in MARINCOMP Symposium, Cork, Ireland, September **2017** (invited speaker).
- **O'Sullivan, G.**, 'Traveller Accommodation Plan', School of Building and Civil Engineering Research Seminar Series, CIT 2017.
- **Murphy, A.**, 'A Review and Validation of the use of Wearable Devices for Human-Environment Research', June **2017**.
- **Pittam, J.**, 'Improved prediction of deep retrofit strategies for low income housing in Ireland using a more accurate thermal bridging heat loss coefficient', School of Building & Civil Engineering Research Seminar Series, CIT, June **2017**.
- **Busby, K., Harrison, J., Horgan, L.**, 'cross-disciplinary approach to building healthier environments', Urban Space and the Body, Cross-disciplinary Conference on UrbanSpace, UCC, June **2017**.
- **O'Shaughnessy, Jason M. (2017)**. Some writings on the City at "Athens Biennale." Athens, Greece. Public Lecture.
- **O'Shaughnessy (2017)**. Excursus into the city and some creative fusions. TU Delft, The Netherlands. Public Lecture.
- **Lomasney, L., Harrington, J.**, 'Sediment transport on the River Bandon, presented at ENVIRON 2017, Athlone IT, April **2017**.

- **O'Rourke, B., Harrington, J.**, SIRIG – Sustainable Infrastructure Research and Innovation Group, Elevator Pitch, Introduction to CIT's Research Centres and Groups Event, Cork Institute of Technology, May **2017**.
- **Merritt, S., Power, N.,** Stockil, K., **Harrington, J.**, 'Risk Based Water Management Framework – Developing a Water Standards Landscape for the Irish Pharmaceutical Sector', Environ2017, Athlone Institute of Technology, April **2017**.
- Rymaszewicz, A., Bruen, M., O'Sullivan, J.J., Turner, J.N., Lawler, D.M., **Harrington, J.**, Conroy, E., Kelly-Quinn, M., Modelling Annual Suspended Sediment Yields in Irish River Catchments, Soil Erosion Modelling Workshop, Ispra, Italy, March **2017**.
- **Merritt, S., Power, N.,** Stockil, K., **Harrington, J.**, 'Risk Based Water Management Framework – Developing a Water Standards Landscape for the Irish Pharmaceutical Sector', School of Building and Civil Engineering Research Seminar Series, CIT, March, **2017**.
- **Mulrooney, S.**, 'Neil Hegarty, Dundanion Court, Cork, 1968,' published online, Waterford Institute of Technology, <https://aiarg2017conference.com/domesticity-at-the-crossroads-irish-housing-design-1955-1980/>, **2017**.
- **Mulrooney, S.**, 'Neil Hegarty, Dundanion Court, 1964-1968.' All Ireland Research Group (AIARG) February **2017**.
- **Mulrooney, S.**, Supple, B., 'Generation Next: What I should think about when planning a new learning space and why does it matter?' <https://www.youtube.com/watch?v=Oz4FNS0c7uE&feature=youtu.be>, **2017**.
- **Harrison, J.**, Guest Editorial: Design for All, February **2017** Vol-12 No-2. Carrots and Sticks: Making Universal Design Happen in Ireland: pp10 -19 Design for All" (online monthly Journal of the Design for All Institute of India): [www.Designforall.in](http://www.Designforall.in)
- **Ó Riain, M.**, The rise of Passive Architecture: The Dawn of Solar Energy. Passive House Plus, p.25. Available at: <https://passivehouseplus.ie/>, **2017**.
- **Ó Riain, M.**, One step forward two steps back: Oil and Architecture. Passive House Plus, 20(1), p.26. Available at: <https://passivehouseplus.ie/>, **2017**.
- **Ó Riain, M.**, A brave New World: Oil and Architecture. Passive House Plus, p.20,21. Available at: <https://passivehouseplus.ie/>, **2017**.
- **Pittam, J.**, 'Improved prediction of deep retrofit strategies for low income housing in Ireland using a more accurate thermal bridging heat loss coefficient', School of Building and Civil Engineering Research Seminar Series, CIT, June **2017**.

- **Harrington, J.**, 'Phos4You, PHOSphorous Recovery from waste water FOR YOUR Life', School of Building and Civil Engineering Research Seminar Series, CIT, May **2017**.
- **Murphy, A., O'Riain, M., O'Sullivan, G.**, 'A Review and Validation of the use of Wearable Devices for Human-Environment Research', School of Building and Civil Engineering Research Seminar Series, CIT, June **2017**.
- **Walsh, A., O'Sullivan, G., Boylan, M., Harrison, J.**, 'Space Human Factors (SHF): A study to design optimal sleep environments in space', School of Building and Civil Engineering Research Seminar Series, CIT, May **2017**.
- **Ruane, K., Walsh, D.**, 'Asset Management Education - A Case Study 10', School of Building and Civil Engineering Research Seminar Series, CIT, May **2017**.
- **Hayes, A., O'Sullivan, G., Boylan, M., Harrison, J.**, 'Educating designers on multi-sensory acknowledgement within the built environment', School of Building and Civil Engineering Research Seminar Series, CIT, May **2017**.
- **Busby, K.**, 'Isolation in Suburban Ireland', School of Building and Civil Engineering Research Seminar Series, CIT, March **2017**.
- **Lomasney, L., O'Driscoll, L., Harrington, J.**, 'Sediment Transport on the River Bandon, Ireland' School of Building and Civil Engineering Research Seminar Series, CIT, March **2017**.
- **Dromey, L., O'Rourke, B., Ruane, K.**, 'A Bridge Rehabilitation Strategy based on the analysis of a Data Set of Bridge Inspections in Co. Cork', School of Building and Civil Engineering Research Seminar Series, CIT, March **2017**.
- **Mulrooney, S.**, 'Neil Hegarty, Dundanion Court, Cork, 1968', School of Building and Civil Engineering Research Seminar Series, CIT, March **2017**.
- **Merritt, S., Power, N., Connell, J., Harrington, J.**, 'Water Risk Management', School of Building and Civil Engineering Research Seminar Series, CIT, March **2017**.
- **Coleman, K., Menzies, G.**, 'Social sustainability on Irish construction projects', School of Building and Civil Engineering Research Seminar Series, CIT, March **2017**.
- **Finnegan, E., Kelly, G., O'Sullivan, G.**, 'Development of a methodology for calculating the impact of climate change on long term and short term overheating patterns in low energy dwellings', School of Building and Civil Engineering Research Seminar Series, CIT, March **2017**.
- **Busby, K., Harrison, J.**, 'Co-Housing as a Response to the Crisis of Housing Ireland's Ageing Population, IFA 13th Global Conference on Ageing, Brisbane, Australia, June **2016**.
- **McKenna, T.**, 'Rethinking structural engineering education – resolving the tension

forces', Elevator Pitch, Civil Engineering Research Ireland (CERI) Conference, August, **2016**.

- **Finegan, E., Kelly, G., O'Sullivan, G.**, 'Development of a methodology for calculating the impact of climate change on long term and short term overheating patterns in low energy dwellings', IMC33 Conference, August, **2016**.
- **O'Sullivan, G.**, 'Traveller Accommodation Plan – Cork City Council', School of Building and Civil Engineering Research Seminar Series, CIT, June **2016**.
- **Dromeay, L.**, 'An Analysis of a Data Set of 1,400 Bridge Inspections in County Cork', School of Building and Civil Engineering Research Seminar Series, CIT, June **2016**.
- **Moloney, M., McKeogh, E.**, 'Irish State infrastructural investment: an analysis of past patterns, and an outline of a future Integrated Systems of Systems evaluation methodology', School of Building and Civil Engineering Research Seminar Series, CIT, May, **2016**.
- **Goulding, D., Fitzpatrick, D., O' Connor, R. & Power, N.M.**, 'Supplying compressed natural gas to the transport industry in Ireland: are the current regulatory licencing arrangements facilitating or hindering development?', School of Building and Civil Engineering Research Seminar Series, CIT, May, **2016**.
- **O'Shaughnessy, J. M. (2016)**. *Angelic flights & ghostly presences in hejduk & beckett's purgatoria*. [With Peer Reviewed Abstract]. 13<sup>th</sup> Annual *Architectural Humanities Research Association (AHRA) Annual PhD Conference*, Sheffield, UK.
- **Hodge, D.**, 'The use of finite element analysis to model transverse load distribution behaviour of pre-stressed precast hollowcore full floor systems', School of Building and Civil Engineering Research Seminar Series, CIT, May **2016**.
- **Lomasney, L.**, 'Sediment Transport on the River Bandon', School of Building and Civil Engineering Research Seminar Series, CIT, April **2016**.
- **Finnegan, E., Kelly, G. & O' Sullivan, G.**, 'Development of a methodology for calculating the impact of climate change on long term and short term overheating patterns in low energy dwellings', School of Building and Civil Engineering Research Seminar Series, CIT, April **2016**.
- **Hayes, A.**, 'Developing Sensory & Emotional Intelligence for Design Education in Ireland', School of Building and Civil Engineering Research Seminar Series, CIT, April **2016**.
- **Ware, A., Power, N.M.**, 'Biogas from slaughterhouse waste in Ireland: Assessment of potential energy recovery pathways', School of Building and Civil Engineering Research Seminar Series, CIT, April **2016**.

- **Keane, W., Power, N.,** 'Is the development of Net Zero Energy agricultural dairy farms possible in Ireland', Environ2016, University of Limerick, March **2016**.
- **Ware, A., Power, N.,** 'Biogas from Slaughterhouse waste in Ireland: Assessment of potential energy recovery pathways', Environ2016, University of Limerick, March **2016**.
- **Brady, D., Power, N.,** 'Potential energy generation from the anaerobic digestion of domestic household and garden wastes', Environ2016, University of Limerick, March **2016**.
- **Lomasney, L., Harrington, J.,** 'Sediment transport on the River Bandon', ENVIRON2016, University of Limerick, March **2016**.
- **O'Shaughnessy, Jason M.** Olney, Eve (**2016**). Material tracings/mnemonic reveals: Rummaging in the Devil's Mountain. BAUHAUS International Colloquium XIII. (Abstract)
- **O'Shaughnessy, Jason M.,** Olney, Eve (**2016**). Dusts, the Female Body, and the Twin Towers. In Society of Architecture Historians 2017 Annual Conference. In Architectural Ghosts. (Abstract)
- **Brady, D., Power, N.M.,** 'Potential energy generation from the anaerobic digestion of domestic household and garden wastes and garden waste', School of Building and Civil Engineering Research Seminar Series, CIT, March **2016**.
- **Pittam, J.,** 'Thermal envelope analysis of residential housing based on stock aggregation theory using a remote feature extraction technique', School of Building and Civil Engineering Research Seminar Series, CIT, March **2016**.
- **Harrington, J.,** 'Suspended sediment measurement on the Rivers Bandon and Owenabue, Ireland', 3<sup>rd</sup> SILTFLUX Workshop, University College Dublin, February **2016**.
- **Moloney, M.,** 'The final hurdles (am I there yet?)', Postgraduate Forum, CIT, **2016**.
- **Moloney, M.,** 'The final hurdles of a PhD', Staff Doctorate Comhluadar, CIT, January, **2016**.
- **Harrington, J. Murphy, J., Coleman, M., Jordan, D., Debuigne, T., Szacsuri, G.,** 'Economic modelling of the management of dredged marine sediment', French Sediment Days (Journées Nationales Sédiments), Nantes, France, November **2015**.
- **Moloney, M.,** 'An analysis of Irish State Infrastructure investment', Academy of Engineers, Engineers Ireland, **2015**.
- **Busby, K., Harrison, J., Horgan, L.,** 'Promoting Universal Design in Architectural Education'. Universal Design in Education conference, Dublin Castle, November **2015**.

- **Ó'Riain, M., 2015.** Prejudice Power and Politics in Education: The Regional Technical Colleges. *Architecture Ireland*, Issue 281, pp.76–77.
- **Harrington, J., Gamble, J., Harrington, S.,** 'Sediment and nutrient fluxes in the Rivers Bandon and Owenabue, Ireland', SedNet 2015, Krackow, Poland, September **2015**.
- **Gamble, J., Barnett, D., Harrington, J.R.,** 'Sediment transport modelling on the River Bandon', ENVIRON2015, IT Sligo, April **2015**.
- **Tangney, S., O' Driscoll, L.,** Debuigne, T., **Harrington, J.R.,** 'Sustainable management and beneficial use opportunities for marine dredged sediment', ENVIRON2015, IT Sligo, April **2015**.
- **Finnegan, E., O'Sullivan, G, Harrington, J.,** Kelly, G., 'The impact of meteorological and geographic variations on the heat demand of an Irish passive house', ENVIRON2015, IT Sligo, April **2015**.
- **Cronin, D., Power, N.,** 'Energy Benchmarking in wastewater collection and treatment', Environ2015, Sligo Institute of Technology, April **2015**.
- **Ware, A., Power, N.,** 'Potential energy generation from the biogas transformation of poultry slaughterhouse by-products', Environ2015, Sligo Institute of Technology, April **2015**.
- **Costello, A.,** Davis, K., 'Achieving 'Net Zero Energy' performance through retrofitting of residential buildings in Ireland', Environ2015, Sligo Institute of Technology, April **2015**.
- **O'Shaughnessy, J. M. (2015)** Irredento Landscapes: Hejduk and Beckett's Purgatoria. [Peer Reviewed and Published Abstract], *Andrew Carnegie PhD Symposium (with Beatriz Colomina SoA Princeton University)*, Edinburgh College of Art, University of Edinburgh
- **O'Sullivan, R., Barnett, D.,** 'Runoff Coefficients', Environ2015, Sligo Institute of Technology, April **2015**.
- **Desmond, J., Cadogan, D.,** 'Advancement of GIS-based Method for Evaluation of Biomass Potential', Environ2015, Sligo Institute of Technology, April **2015**.
- **O'Shaughnessy, Jason M. (2015).** Tangier: The Inter-Mediated City. Magreb-Norden Research Symposium, Edinburgh, Scotland, UK. Public Lecture.
- **Ó'Riain, M.,** 'Politics in Architecture; Brutalism, Irish Regional Technical College buildings and their precedents', School of Building and Civil Engineering Research Seminar Series, CIT, April, **2015**.
- **O'Rourke, B., Murphy, J.J.,** 'Structural Engineering', School of Building and Civil Engineering

Research Seminar Series, CIT, April, **2015**.

- **Power, N.**, 'Research in the area of Waste, Biofuels & Biomass in CIT', School of Building and Civil Engineering Research Seminar Series, CIT, March, **2015**.
- **Carey, G.**, 'Post occupancy evaluation of generic repeated design schools in Ireland', School of Building and Civil Engineering Research Seminar Series, CIT, March, **2015**.
- **Coleman, D.**, 'Performance of GGBS Concretes in Acidic Wastewater Environments', School of Building and Civil Engineering Research Seminar Series, CIT, March, **2015**.
- **Busby, K.**, 'Strategies for the creation of lifetime homes in Ireland', School of Building and Civil Engineering Research Seminar Series, CIT, March, **2015**.
- **Moloney, M.**, 'Irish State infrastructural investment: an analysis of past patterns, and an outline of a future Integrated Systems of Systems evaluation methodology', School of Building and Civil Engineering Research Seminar Series, CIT, March, **2015**.
- **O'Sullivan, G.**, 'Local Authority Housing in Cork County Borough, 1886 – Present', School of Building and Civil Engineering Research Seminar Series, CIT, March, **2015**.
- **Harrington, J.R.**, 'Sediment Research in the River, Estuarine and Coastal Environment', School of Building and Civil Engineering Research Seminar Series, CIT, February, **2015**.
- **O'Shaughnessy, J.**, 'Irredento Landscapes: Hejduk and Beckett's Purgatoria', School of Building and Civil Engineering Research Seminar Series, CIT, February, **2015**.
- **Cadogan, D.**, 'Experimental Investigation of Bored Pile Foundations', School of Building and Civil Engineering Research Seminar Series, CIT, February, **2015**.
- **McKenna, T.**, 'Limit State Characteristics of GGBS Concrete in Fire', School of Building and Civil Engineering Research Seminar Series, CIT, February, **2015**.
- **Tangney, S.**, 'Sustainable Management and Beneficial Use Opportunities for Marine Dredged Sediment', Research Seminar Series, School of Building and Civil Engineering, Cork Institute of Technology, February **2015**.
- **Pittam, J.**, 'Developing representative archetypes using a bottom up approach for stock modelling', School of Building and Civil Engineering Research Seminar Series, CIT, January, **2015**.
- **Gamble, J.**, 'Sediment Transport Modelling on the River Bandon', School of Building and Civil Engineering Research Seminar Series, CIT, January, **2015**.
- **Finnegan, E.**, 'The impact of meteorological and geographic variations on the heat demand of an Irish passive house 'School of Building and Civil Engineering Research Seminar Series, CIT, January, **2015**.

- **Ware, A.**, 'Potential energy generation from the biogas transformation of poultry slaughterhouse by-products', School of Building and Civil Engineering Research Seminar Series, CIT, January, **2015**.
- **Tangney, S.**, 'Sustainable Management and Beneficial Use Opportunities for Marine Dredged Sediment', School of Building and Civil Engineering Research Seminar Series, CIT, January, **2015**.
- **Hodge, M.**, 'Design of a micro-scale digester for OFMSW in Ireland', School of Building and Civil Engineering Research Seminar Series, CIT, January, **2015**.
- **Moloney, M.**, 'My research journey...', Staff Doctorate Comhlúadar, CIT, January **2015**.
- **Gamble, J., Harrington, J., Barnett, D.**, 'Sediment Surveying and Modelling on the River Bandon', OPW National Hydrology Conference, Tullamore, November **2014**.
- **Harrington, J.**, 'Sediment research on the Rivers Bandon and Owenabue, Ireland', 1<sup>st</sup> SILTFLUX Workshop, University College Dublin, October **2014**.
- **Harrington, J.** 'Civil engineering applications for marine sediments', presentation to the EPA Environmental Licensing Programme, Johnstown Castle, Wexford, March **2014**.
- **Ware, A., Power, N.**, 'Production of biogas from slaughterhouse wastes in Ireland', Environ2014, Trinity College Dublin, February **2014**.
- **Tangney, S., O' Driscoll, L., Harrington, J.R.**, 'Beneficial uses of marine sediments', ENVIRON2014, TCD, February **2014**.
- **Gamble, J., Barnett, D., Bonner, R., Harrington, J.R.**, 'Sediment surveying on the River Bandon', ENVIRON2014, TCD, February **2014**.
- **Mulrooney, S.**, Paul Rudolph's A&A. Seminar for students from University of Limerick (SAUL) delivered at CCAE, March **2014**.
- **O'Shaughnessy, J.M. (2014)** Irredento Landscapes: Hejduk and Beckett's Purgatoria. [Peer Reviewed and Published Abstract], *Andrew Carnegie PhD Symposium (with Beatriz Colomina SoA Princeton University)*, Edinburgh College of Art, University of Edinburgh
- **O'Shaughnessy, J.M. (2014)** Spiralling Tendencies: Hejduk and Beckett's Purgatoria. [Peer Reviewed and Published Abstract], *SETTING-OUT. Architectural Humanities Research Association (AHRA) Annual PhD Conference*, Dublin, Ireland.
- **O'Shaughnessy, J. M. (2014)** Architecture Middling. [Peer Reviewed and Published], *Emerging Research in Architecture: AIARG*, Belfast, Northern Ireland.

- **O'Shaughnessy, J. M. (2014)** Architecture Research Moments [i] 2014. *Architectural Research Network [ARENA]*, KU Leuven, Faculty of Architecture, Campus Sint-Lucas, Brussels, Belgium, 17-JAN-14 - 18-JAN-14.
- **O'Shaughnessy, J.**, The City. Tallinn Architecture Biennale, September **2013**.
- **O'Shaughnessy, J.**, The Future City. Istanbul Design Week, November **2013**.
- **Harrison, J.**, Guest Editorial, Design for All, June **2013** Vol-8 No-6.: Editorial Introduction (pp16 – 24).
- **O Riain, M.**, Delaney, F., O' Sullivan, P., Clancy, 'Zero2020 – A Low Energy Commercial Retrofit', Better Building Conference, Dublin, April **2013**.
- **O'Riain, M.**, Delaney, F., O' Sullivan, P., 'Zero2020 – A Low Energy Commercial Retrofit', Energy Efficient Retrofit of Buildings Conference, Dublin, March **2013**.
- **Ware, A., Power, N.**, 'The potential of biogas to produce electricity or renewable natural gas for transport in Ireland', ENVIRON2013, NUIG, January **2013**.
- **McCarthy, F., Harrington, J.R., O' Driscoll, L.**, 'The interaction of a large scale sea-water pumped hydro energy storage plant, proposed electrical interconnectors and large scale wind farms with the Irish Energy system', *ENVIRON2013*, NUIG, January **2013**.
- **O'Riain, M., O' Driscoll, C.**, De Eyto 'The Impact of product use within the context of low energy use buildings', AIARG, 2013 – Conference AIARG 2<sup>nd</sup> annual conference – Emerging Research, Limerick **2013**.
- **O'Shaughnessy, J.M. (2013)**. City as Palimpsest, Istanbul Design Week, Istanbul Turkey. Public Lecture.
- **O'Shaughnessy, J.M. (2013)**. City as Palimpsest, Tallinn Architecture Biennale, Estonia. Public Lecture.
- **O'Shaughnessy, J.M. (2013)** Architecture and The City. [Conference Showcase Lecture], *Tallinn Architecture Biennale (TAB 2013)*, Tallinn, Estonia.
- **O'Shaughnessy, J. M. (2013)** The Future City. [Keynote Speaker], *Istanbul Design Week*, Istanbul.
- **O'Shaughnessy, J. M. (2013)** Design: As Critical Method. [Peer Reviewed and Published Abstract], *All Ireland Architecture Research Group (AIARG) 2nd Annual Conference*, City Art Gallery, Limerick, Ireland.
- **Hodge, M., Power, N.**, 'Design of a micro-scale digester for OFMSW in Ireland', Environ 2012, UCD, March **2012**.

- **O’Riain, M.**, Delaney, O’Sullivan, ‘Practice what you preach’, See the Light Conference, Dublin, September **2012**.
- **McCarthy, F., Harrington, J.R., O’Driscoll, L.**, ‘Site selection for a combined sea-water pumped hydro energy storage and wind energy plant and the impact of such a plant on the Irish energy system’, Environ 2012, UCD, March **2012**.
- **Hickey, J., Harrington, S., Harrington, J.R.**, ‘Response of phosphorus loads to suspended sediment transport in the River Bandon, Environ 2012, UCD, March **2012**.
- **Hodge, M., Power, N.**, ‘Design of a micro-scale digester for OFMSW in Ireland’, Galway Energy Night, NUI Galway, March **2012**.
- **O’Shaughnessy, J.**, ‘City As Palimpsest’, Darc Space, Dublin, Exhibition Talk, **2012**.
- **Hickey, J., Harrington, S., Harrington, J.**, “Suspended Sediment Loadings for the River Bandon, South Western River Basin District”, OPW National Hydrology Conference, Athlone, November **2011**.
- **O’Shaughnessy, J.**, (2011), ‘Text and Context’, Use of Text as an Architectural Element, Glucksman Gallery, Cork September **2011**.
- **Harrison, J.D.**, ‘International Good Practice in Universal Design: A Global Review’, United Nations Development Project Penang Roundtable Dialogue on Universal Design at the Science University of Malaysia (USM) July **2011**.
- **O’Shaughnessy, J.**, (2010), ‘Research in Practice. Dublin Institute of Technology’, Invited Lectures.
- **O’Shaughnessy, J.**, (2011), ‘New Pedagogies in Spatial Practice’, Presentation to All Ireland Architecture Research Group Lecture, May **2011**.
- **Deasy, E., Power, N.**, ‘Biomethane and biodiesel from energy crops in Ireland: a technical and economic appraisal’, *Environ 2011*, UCC, April **2011**.
- **Goulding, D., Power, N.**, ‘An investigation into nationwide biomethane development and its contribution in the Irish transport sector’, *Environ 2011*, UCC, April **2011**.
- **Hickey, J., Harrington, J.**, “Flow and Suspended Sediment Analyses for the River Bandon”, ENVIRON2011, UCC, April **2011**.
- **O’Shaughnessy, J.**, (2010), ‘Frequencies (National Sculpture Factory Series)’, Cork, Invited Public Lecture Series.
- **O’Shaughnessy, J.**, (2010), ‘New practices in Irish Architecture’, The Scott Sutherland School of Architecture & Built Environment, Invited Lectures.

- **O'Shaughnessy, J., (2010)**, 'Practice and Research in Architecture', Aberdeen, Scotland: Invited Lectures.
- **O'Shaughnessy, J., (2010)**, 'Recent ideas in Practice', "Beyond the Pale" February 2009, Jason O'Shaughnessy in conversation with Tarla MacGabhann & Dominic Stevens, University of Limerick.
- **Harrington, S., Harrington, J.R.,** 'Suspended Sediment Loadings in Selected Rivers in the South Western River Basin District, Ireland', *Environ 2010*, Limerick IT, February **2010**.
- **Goulding, D., Power, N.,** 'The comparison of small to medium scale anaerobic digestion to CHP for various crop rotations in Ireland', *Environ 2010*, Limerick IT, February **2010**.
- **Kenneally, D., Power, N.,** 'The potential for gaseous biofuels in Ireland', *Environ 2010*, Limerick IT, February **2010**.
- **Deasy, E., Power, N.,** 'The optimum energy crops in Ireland for biofuel production', *Environ 2010*, Limerick IT, February **2010**.
- **Mullins, W., O' Driscoll, L., Harrington, J.R.,** 'An investigation into the Metal Removal Capabilities of Integrated Constructed Wetlands in Treating Landfill Leachate', *Environ 2010*, Limerick IT, February **2010**.
- **Sheehan, C., Harrington, J.R.,** 'A Technical, Environmental and Economic Analysis of Dredge Material Recovery and Reuse Techniques for Ireland', *EPA Fellowships & Scholarships Seminar 2009*, Dublin, Ireland, November **2009**.
- **Mulrooney, S.,** 'The City, the School, the Space: Case Study Building Visits as a methodology, 6<sup>th</sup> International Architectural Humanities Research Association, Edinburgh, November **2009**.
- **Harrington, S., Harrington, J.R.,** 'Sediment & Nutrient Fluxes and Loadings at the Irish River Basin Scale', *ENVIRON2009*, Waterford IT, February **2009**.
- **Sheehan, C., Harrington, J.R.,** 'The Feasibility of Producing Manufactured Topsoil for Dredged Material from the Port of Waterford', *ENVIRON2009*, Waterford IT, February **2009**.
- **O'Shaughnessy, Jason M. (2009)** Profiled Research in Practice (Institute Cervantes and AAI). Fresh-air-itecture Series February 19 2009. Victoria Acebo (AceboXAlonso) and Jason O'Shaughnessy in conversation. Institute Cervantes, Dublin: Invited Lectures.
- **Sheehan, C., Harrington, J.R.,** 'Beneficial Reuse Technologies for Dredge Material in Ireland', *EPA Fellowships & Scholarships Seminar 2008*, Dublin, Ireland, 13-14 November **2008**.

- **O'Shaughnessy, J. M. (2008)** Showcase Lecture. [Keynote Speaker], *European Assembly of Student Architects (EASA)*, Dublin.
- **Sheehan, C., Harrington, J.R.**, 'Dredge Material Beneficial Reuse Applications for Ireland' *ENVIRON2008*, Dundalk IT, January **2008**.
- **Harrington, S., Harrington, J.R.**, 'Suspended Sediment and Nutrient Budgets and Fluxes at the Irish River Basin Scale', *ENVIRON2008*, Dundalk IT, January **2008**
- **Mulrooney, S.**, 'Vilanova Artigas – The Building is the Best Class', Architectural Humanities Research Association, PhD Conference, **2008**.
- **O'Shaughnessy, J.M. (2008)** World Architecture Festival (WAF), Barcelona 2008. Finalist Presentation.
- **O'Shaughnessy, Jason M. (2008)** EASA Student Assembly 2008: Showcase Lecture by Jason O'Shaughnessy of Architectuer53seven & Yvonne Farrell of Grafton Architects. Dublin. Invited Lecture.
- Motherway, K., **Harrington, J.R.**, 'A sediment budget analysis for Cork Harbour', *ENVIRON2007*, Carlow IT, January **2007**.
- **Sheehan, C., Harrington, J.R. and Sutton, S.**, 'Dredge material recovery and reuse techniques in Ireland', *ENVIRON2007*, Carlow IT, January **2007**.
- **O'Shaughnessy, J.M. (2007)** Aparallel Evolution (UCD). University College Dublin Thesis Workshops: Invited Seminars.
- **Riordan, J., Murphy, J.P., Harrington, J.R.**, 'Technical and economic feasibility of utilising construction and demolition waste and dredge material as landfill liner', *ENVIRON2007*, Carlow IT, January **2007**.

## Installation in a Gallery

- **Vardy, S.,** McClokey, P. Eile {Border-Fictioning} – 30 June- 33 July 2022 immersive installation, Bloc Projects, Sheffield, UK
- **O'Shaughnessy, J.M.** (2017). *Athens Biennale*. Design of multi-level and multi-modal exhibition with designed artefacts and curated drawings. Athens, Greece.
- **O'Shaughnessy, J.M.,** PLUCK Projects Curators (2017). *Architecture/Sculpture Exhibition. Boole Library. University College Cork. Ireland.*
- **O'Shaughnessy, J.M.** (2013) *New Topographies in Istanbul. Tallinn Architecture Biennale.* Tallinn, Estonia
- **O'Shaughnessy, J.M.** (2013) *The City as Palimpsest.* Istanbul Design Week, Istanbul, Turkey.
- **O'Shaughnessy, J.M.** (2012) *The City as Palimpsest.* Darc Space, Dublin. Ireland.
- **O'Shaughnessy, J.M.** (2011) *The Secret Laboratory- (model/drawings) Notebooks and Narratives (curated by Paul Clarke).*
- **O'Shaughnessy, J.M.** (2007) *Through the looking glass (model/drawings, design pamphlets),* in *Defining Space* International Conference, Dublin, Ireland.

## **Opinion Pieces, Editorials etc,**

Deeney, P., Ruane, K., Leahy, P. **Wind Turbines – Inside the Battle to Overcome Their Waste Problem.** The Conversation, November 2023. <https://theconversation.com/wind-turbine-blades-inside-the-battle-to-overcome-their-waste-problem-217704> (accessed 29.11.2023).

Ruane, K. *Lessons from Edinburgh Schools Need to be Considered in Ireland.* Irish Examiner, October 2018