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Research Interest	Dr. Salawdeh's main research interests are related to structures, earthquake engineering, engineering seismology, geotechnical engineering, computational mechanics, sustainable construction technologies, sustainable energy and life cycle assessment.
Publications	<ul style="list-style-type: none"> • Ahmad N., M. Masoudi, S. Salawdeh (2021), "Cyclic response and modelling of special moment resisting beams exhibiting fixed-end rotation" Bulletin of Earthquake Engineering, DOI 10.1007/s10518-020-0 0987-w • Salawdeh, S. (2020) "Direct Displacement Based Seismic Design of Irregular CBFs" Civil Engineering Research in Ireland 2020 (CERI2020), Cork, Ireland. • Salawdeh, S. and N. Ahmad (2020) "Performance based design approach for reinforced concrete precast structures" Civil Engineering Research in Ireland 2020 (CERI2020) Cork, Ireland. • Ali M. and S. Salawdeh (2020) "A comparative study of Linear and Nonlinear Analysis of high-rise buildings against wind loads" Civil Engineering Research in Ireland 2020 (CERI2020) Cork, Ireland. • Sweeney G. and S. Salawdeh (2020) "Design of Reinforced Concrete Beams with Web Openings" Civil Engineering Research in Ireland 2020 (CERI2020) Cork, Ireland. • McCready P., Y. Jiang, S. Salawdeh, H. AlWahsh, B. Broderick, J. Goggins (2020), "Performance validation of a self-centring structure using robust data sets from shake table testing" Civil Engineering Research in Ireland 2020 (CERI2020) Cork, Ireland • Naughton D., M. Naughton, M. O' Sullivan, S. Salawdeh (2020) "Analysis and Design of a Novel Heavy-Duty Precast Element" Civil Engineering Research in Ireland 2020 (CERI2020) Cork, Ireland • Salawdeh, S., T. Ryan, B. M. Broderick and J. Goggins (2019). "DDBD assessment of steel CBFs using full scale shake table tests with realistic connections." Journal of Constructional Steel Research 154: 14-26. • Hassan, M. S., S. Salawdeh and J. Goggins (2018). "Advanced Finite Element Simulation of Ductile Structural Steel Incorporating a Crack Growth Model." Structures 15: 94-114. • Hassan, M. S., S. Salawdeh and J. Goggins (2018). "Determination of geometrical imperfection models in finite element analysis of structural steel hollow sections under cyclic axial loading." Journal of Constructional Steel Research 141: 189-203. • Goggins, J., B. M. Broderick, A. Y. Elghazouli, S. Salawdeh, A. Hunt, P. Mongabure and J. English (2018). "Shake Table Testing of Concentrically Braced Steel Structures With Realistic Connection Details Subjected to Earthquakes." Structures 13: 102-118. • Hassan, M. S., S. Salawdeh, A. Hunt, B. M. Broderick and J. Goggins (2018). "A study on detailing gusset plates and bracing members in

	<p>concentrically braced frame structures." <i>Advances in Computational Design</i> 3: 233-267.</p> <ul style="list-style-type: none"> • Salawdeh, S., J. English, J. Goggins, A.Y. Elghazouli, A. Hunt, and B.M. Broderick (2017) "Shake table assessment of gusset plate connection behaviour in concentrically braced frames". <i>Journal of Constructional Steel Research</i>. 138: p. 432-448. P. 29. • Ryan, T., B. Broderick, A. Hunt, J. Goggins and S. Salawdeh (2017). "Recommendations for numerical modelling of concentrically braced steel frames with gusset plate connections subjected to earthquake ground motion. <i>Journal of Structural Integrity and Maintenance</i>, 2017. 2(3): p. 168-18. P. 13. • Salawdeh, S. and J. Goggins. (2016) "Performance Based Design Approach for Multi-Storey Concentrically Braced Steel Frames". <i>Steel and Composite Structures</i>. 20(4): p. 28. • Salawdeh, S. and J. Goggins. (2016) "Direct Displacement Based Seismic Design for Single Storey Steel Concentrically Braced Frames". <i>Earthquakes and Structures</i>, 2016. 10(5): p. 17. • Hassan, M.S., J. Goggins, and S. Salawdeh. (2015) "Characterising the Effect of Global and Local Geometric Imperfections on the Numerical Performance of a Brace Member". <i>Journal of Physics</i>. 628(1): p. 11. • Broderick BM, A. Hunt, P. Mongabure, J. Goggins, S. Salawdeh, G. O'Reilly, D. Beg, P Moze, F. Sinur, A. Elghazouli, (2014) "Assessment of the seismic response of concentrically-braced steel frames through full scale shake table tests" <i>Geotechnical, Geological and Earthquake Engineering</i>, 35(1),. P. 18 • Salawdeh, S. and J. Goggins. (2013) "Numerical Simulation for Steel Brace Members Incorporating a Fatigue Mode". <i>Engineering Structures</i>, 2013. 46(0): p. 18 • Goggins, J. and S. Salawdeh, (2013) "Validation of Nonlinear Time History Analysis Models for Single-Storey Concentrically Braced Frames Using Full-Scale Shake Table Tests". <i>Earthquake Engineering & Structural Dynamics</i>, 2013. 42(8): p. 20. • J. English, J. Goggins, Salawdeh, S. (2018) "INVERTED-V (CHEVRON) CONCENTRICALLY BRACED FRAMES –COMPARATIVE STUDY AND VERIFICATION ANALYSIS" 16th European Conference on Earthquake Engineering, June 2018, Thessaloniki, Greece. P.12 • Ryan, T., B. Broderick, S. Salawdeh, and J. Hickey, (2017) "An integrated experimental and numerical assessment of force-based design for concentrically braced steel frames", <i>Eurosteel2017 proceedings</i>, ce/papers. 1(2-3): p. 3190-3199. P.10. • M.S.Hassan, S. Salawdeh, J. Goggins (2017), "A unified methodology for the modelling of steel behaviour: An application-oriented methodology", <i>Proceedings of EUROSTEEL-2017</i>, Copenhagen, Denmark, 13-15 September-2017. P.10 • M.S.Hassan, S. Salawdeh, J. Goggins (2017), "Simulating ductile crack growth in carbon steel using an extended finite element method (XFEM)" 39th IABSE Symposium – Engineering the Future, September-2017, Vancouver, Canada. P.12 • M.S.Hassan, S. Salawdeh, J. Goggins (2017) "Finite element modelling of gusset-plate bracing systems under ultra-low cycle fatigue".
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