

Appendix 3 Alphabetical listing of publications

- ABANADES, J., GREAVES, D. & IGLESIAS, G.: "Wave farm impact on the modal state of a beach", *Marine Geology*, vol. 361, pp. 126–135, 01-Mar-15 (Arrays and farms)
- ABANADES, J., GREAVES, D. & IGLESIAS, G.: "Coastal defence using wave farms: The role of farm-to-coast distance", *Renewable Energy*, pp. 572-582, 2015 (Environmental Interaction)
- AFGAN, I., MCNAUGHTON, J., ROLFO, S., APSLEY, D.D., STALLARD, T. & STANSBY, P.K.: "Turbulent flow and loading on a tidal stream turbine by LES and RANS", *International Journal of Heat and Fluid Flow*, vol. 43, pp. 96-108, DOI: 10.1016/j.ijheatfluidflow.2013.03.010, 17-Jun-13 (Extreme loadings and durability)
- AGARWAL, A., VENUGOPAL, V. & HARRISON G.P.: "The assessment of extreme wave analysis methods applied to potential marine energy sites using numerical model data", *Renewable and Sustainable Energy Reviews*, vol. 27, pp. 244-257, DOI: 10.1016/j.rser.2013.06.049, 2013 (Extreme loadings and durability)
- AGGIDIS, G.A.: "Ocean Energy Research and State of the Art.", International THRUST 2015, Thessaloniki, Greece, May-15 (Arrays and farms)
- AGGIDIS, G.A.: "Tidal Energy & Technology Current Trends.", NTUA Flow 2014, Athens, Greece, 12-13 Dec 2014 (Arrays and farms)
- AHAMED, R.A., JOHNSTONE, C. & STACK, M.M.: "Mapping blade angle effects for the erosion of polymer based composites: an approach to developing smart materials for tidal turbines.", EWTEC conference, Nantes, France, 7-10 Sep 2015 (Fatigue loadings and reliability)
- AHMED, U., AFGAN, I., APSLEY, D., STALLARD, T. & STANSBY, P.K.: "CFD Simulations of a Full-Scale Tidal Turbine: Comparison of LES and RANS with Field Data.", EWTEC conference, Nantes, France, 7-10 Sep 2015 (Extreme loadings and durability)
- AHMED, U., APSLEY, D., STALLARD, T., AFGAN, I. & STANSBY, P.K.: "Large Eddy Simulations to represent a full scale tidal stream flow and turbine", Oxford Tidal Energy Workshop, Oxford, United Kingdom, 23-24 March 2015 (Extreme loadings and durability)
- ALEXANDROS, A., BUCHAN, A.G., PIGGOTT, M.D., PAIN, C.C., HILL, J. & GOFFIN, M.A.: "Adaptive harr wavelets for the angular discretisation of spectral wave models.", *Journal of Computational Physics*, vol. 305, pp. 521-538, DOI: 10.1016/j.jcp.2015.10.046, 2015 (Environmental Interaction)
- ALLSOP, S., PEYRARD, C., & THIES, P. R.: "A BEMT model for a high solidity, hubless and ducted tidal stream turbine.", 5th Oxford Tidal Energy Workshop. Oxford, UK., Mar-16 (Extreme loadings and durability)
- ANTONUTTI, R., PEYRARD, C., JOHANNING, L. & INGRAM, D.: "The effects of wind-induced inclination on floating wind turbine dynamics in the time domain.", *Renewable Energy*, vol. 88, pp. 83-94, DOI: doi:10.1016/j.renene.2015.11.020, Apr-16 (Environmental Interaction)
- ANTONUTTI, R., PEYRARD, C., JOHANNING, L., INCECIK, A. & INGRAM, D.: "An investigation of the effects of wind-induced inclination on floating wind turbine dynamics: heave plate excursion", *Ocean Engineering*, vol. 91, pp. 208-217, DOI: 10.1016/j.oceaneng.2014.09.008, 15-Nov-14 (Extreme loadings and durability)
- ASHTON, I., VAN-NIEUWKOOP-MCCALL, J.C.C, SMITH, H.C.M. & JOHANNING, L.: "Spatial variability of waves within a marine energy site using in-situ measurements and a high resolution spectral wave model", *Energy*, vol. 66, pp. 699-710, DOI: 10.1016/j.energy.2013.12.065, 01-Mar-14 (Arrays and farms)
- ASHTON, I.G.C. & JOHANNING, L.: "On errors in low frequency wave measurements from wave buoys", *Ocean Engineering*, vol. 95, pp. 11–22, DOI: doi:10.1016/j.oceaneng.2014.11.033, 01-Feb-15 (Novel marine energy systems and components)
- AVDIS, A., JACOBS, C.T., HILL, J., PIGGOTT, M.D. & GORMAN, G.J.: "Shoreline and bathymetry approximation in mesh generation for tidal renewable simulations.", EWTEC conference, Nantes, France, 7-10 Sep 2015 (Environmental Interaction)

- BAHAJ, A.S.: "Marine current energy conversion: the dawn of a new era in electricity production.", *Philosophical Transactions of the Royal Society Part A*, vol. 371, issue. 1985, DOI: 10.1098/rsta.2012.0500, 14-Jan-13 (Fatigue loadings and reliability)
- BAHAJ, A.S. & MYERS, L.E.: "Shaping array design of marine current energy converters through scaled experimental analysis", *Energy*, vol. 59, pp. 83-94, DOI: 10.1016/j.energy.2013.07.023, 15-Sep-13 (Arrays and farms)
- BAILIE, H. & BRYDEN, I.G.: "Influence of a quadratic power take-off on the behaviour of a self-contained inertial referenced wave energy converter", *Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment*, DOI: 10.1177/1475090211425143, 2012 (Novel marine energy systems and components)
- BARAJAS-SOLANO, I., MUELLER, M. & KIPRAKIS, A.: "Active Magnetic Bearings for Linear Generators", 10th EWTEC Conference, Aalborg, Denmark, 2-5 Sep 2013 (Novel marine energy systems and components)
- BARAJAS-SOLANO, I.J. & MUELLER, M.A.: "Active Magnetic Bearings Using Air-Cored Coils Halbach Array in a Linear Wave Energy Converter", 2nd Asian Wave and Tidal Energy Conference, Japan, 28 July - 1 Aug 2014 (Novel marine energy systems and components)
- BARBOUR, E. & BRYDEN, I.G.: "Energy storage in association with tidal current generation systems", *Proceedings of the Institution for Mechanical Engineers, Journal of Power and Energy*, DOI: 10.1177/0957650911399014, 2011 (Novel marine energy systems and components)
- BARBOUR, E., WILSON, I.A.G., BRYDEN, I.G., MCGREGOW, P.G., MULHERAN, P.A. & HALL, P.J.: "Towards an objective method to compare energy storage technologies: development and validation of a model to determine the upper boundary of revenue available from electrical price arbitrage", *Energy and Environmental Science*, issue. 1, DOI: 10.1039/C2EE02419E, 2012 (Arrays and Farms)
- BASHIR, I., WALSH, J., THIES, P.R., BLONDEL, P. & JOHANNING, L.: "Underwater Acoustic Emission Testing of Mooring Ropes at Dynamic Marine Component Test Facility (DMaC)", PRIMaRE Conference, Penryn, United Kingdom, 16-Jun-15 (Fatigue loadings and reliability)
- BASTON, S.: "Tidal modelling and environmental impacts.", *The Royal Society - International Scientific Seminar India-UK*, Edinburgh, United Kingdom, Mar-14 (Environmental Interaction)
- BASTON, S., HARRIS, R.E., WOOLF, D.K., HILEY, R.A. & SIDE, J.: "Sensitivity Analysis of the Turbulence Closure Models in the Assessment of Tidal Energy Resource in Orkney", 10th EWTEC Conference, Aalborg, Denmark, 2-5 Sep 2013 (Extreme loadings and durability)
- BASTON, S., WALDMAN, S. & SIDE, J.: "Modelling energy extraction in tidal flows.", *TeraWatt Position Papers*, pp. P75-107, ISBN: 978-0-9934256-0-8, 2015 (Environmental Interaction)
- BASUMATARY, J., NIE, M. & WOOD, R.J.K.: "The synergistic effects of cavitation erosion-corrosion in ship propeller materials", *Journal of Bio- and Tribo-Corrosion*, vol. 1, issue. 12, pp. 1-12, ISSN: 2198-4220, 2015 (Fatigue loadings and reliability)
- BATTEN, W.M.J., HARRISON, M.E. & BAHAJ, A.S.: "Accuracy of the actuator disc-RANS approach for predicting the performance and wake of tidal turbines", *Philosophical Transactions of the Royal Society Part A*, vol. 371, issue. 1985, DOI: 10.1098/rsta.2012.0293, 14-Jan-13 (Fatigue loadings and reliability)
- BELMONT, M.R., CHRISTMAS, J., DANNENBERG, J., DUNCAN, J., DUNCAN, J.M. & FERRIER, B.: "An Examination of the Feasibility of Linear Deterministic Sea Wave Prediction in Multi-Directional Seas Using Wave Profiling Radar: Theory, Simulation and Sea Trials", *Journal of Atmospheric and Oceanic Technology*, vol. 31, issue. 7, pp. 1601-1614, DOI: 10.1175/JTECH-D-13-00170.1, Jul-14 (Fatigue loadings and reliability)
- BENJAMINS, S., HARNOIS, V., SMITH, H.C.M., JOHANNING, L., GREENHILL, L., CARTER, C. & WILSON, B.: "Understanding the potential for marine megafauna entanglement risk from renewable marine energy developments", *Scottish National Heritage Commissioned Report No. 791*, 2014 (Environmental Interaction)

- BLACKMORE, T. & BAHAI, A.S.: "Turbulence and its effect on the thrust and wake of a porous disc rotor simulator", 2nd Asian Wave and Tidal Energy Conference, Japan, 28 July - 1 Aug 2014 (Arrays and farms)
- BLACKMORE, T., BATTEN, W.M.J. & BAHAI, A.S.: "Influence of turbulence on the wake of a marine current turbine simulator", Proceedings of the Royal Society A, DOI: 10.1098/rspa.2014.0331, 27-Aug-14 (Arrays and farms)
- BLACKMORE, T., BATTEN, W.M.J. & BAHAI, A.S.: "Inlet grid-generated turbulence for large-eddy simulations", International Journal of Computational Fluid Dynamics, vol. 27, issue. 06-Jul, pp. 307-315, DOI: 10.1080/10618562.2013.819972, Jul-13 (Extreme loadings and durability)
- BLACKMORE, T., BATTEN, W.M.J., MÜLLER, G.U. & BAHAI, A.S.: "Influence of turbulence on the drag of solid discs and turbine simulators in a water current", Experiments in Fluids, vol. 55, issue. 1637, 2014 (Extreme loadings and durability)
- BLACKMORE, T., GAURIER, B., MYERS, L., GERMAIN, G. & BAHAI, A.S.: "The Effect of Freestream Turbulence on Tidal Turbines.", EWTEC conference, Nantes, France, 7-10 Sep 2015 (Fatigue loadings and reliability)
- BOUFERROUK, A., HARDWICK, J.P., COLUCCI, A.M. & JOHANNING, L.: "Quantifying turbulence from field measurements at a wave energy site", Renewable Energy, vol. 87, issue. 1, pp. 478-492, DOI: <http://dx.doi.org/10.1016/j.renene.2015.10.046>, Mar-16 (Extreme loadings and durability)
- BOUFERROUK, A., SAULNIER, J.B., SMITH, G.H. & JOHANNING, L.: "Field measurements of surface waves using a 5-beam ADCP", Ocean Engineering, vol. 112, pp. 173-184, DOI: 10.1016/j.oceaneng.2015.12.025, 15-Jan-16 (Arrays and Farms)
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- BRENNAN, G., KREGTING, L., BEATTY, G.E., COLE, C., ELSÄßER, B., SAVIDGE, G. & PROVAN, J.: "Understanding macroalgal dispersal in a complex hydrodynamic environment: a combined population genetic and physical modelling approach", Journal of the Royal Society Interface, vol. 11, 2014 (Environmental Interaction)
- BRICHENO, L., WOLF, J. & ALDRIDGE, J.: "Distribution of natural disturbance due to wave and tidal bed currents around the UK.", Continental Shelf Research, vol. 109, pp. 67-77, DOI: 10.1016/j.csr.2015.09.013, 2015 (Environmental Interaction)
- BROUDIC, M., CROFT, T.N., WILLIS, M.R., MASTERS, I. & CHEONG, S.H.: "Long Term Monitoring of Underwater Noise at a Proposed Deployment Site of a Tidal Stream Device", Fourth International Conference on Ocean Energy (ICOE), Dublin, Ireland, 17-19 Oct 2012 (Environmental Interaction)
- BROWN, S., GREAVES, D., MAGAR, V. & CONLEY, D.: "Evaluation of turbulence closure models under spilling and plunging breakers in the surf zone", Coastal Engineering, DOI: 10.1016/j.coastaleng.2016.04.002, 2016 (Environmental Interaction)
- BRYDEN, I.G.: "Tidal Energy", Encyclopedia of Sustainability Science and Technology, 2011 (Arrays and Farms)
- BUCKLAND, H.C., MASTERS, I., & ORME, J.: "Wave Implementation in Blade Element Momentum theory for modelling tidal stream turbines", In Proceedings of the 19th UK conference of the Association for Computational Mechanics in Engineering, Edinburgh, UK, 2011 (Extreme loadings and durability)
- BUCKLAND, H.C., MASTERS, I., ORME, J.A.C. & BAKER, T.: "Cavitation Inception and Simulation in BEMT for Modelling Tidal Stream Turbines", Institution of Mechanical Engineers, Part A: Journal of Power and Energy, vol. 227, issue. 4, pp. 479-485, DOI: 10.1177/0957650913477093, 2013 (Novel marine energy systems and components)

- BULDAKOV, E., STAGONAS, D. & SIMONS, R.: "Lagrangian Numerical Wave-Current Flume", International Workshop on Water Waves and Floating Bodies, Bristol, United Kingdom, 12-15 April 2015 (Extreme loadings and durability)
- BULL, S.J., MOHARRAMI, N., HAINSWORTH, S.V. & PAGE, T.F.: "The origins of chemomechanical effects in the low-load indentation hardness and tribology of ceramic materials.", Special 50th Anniversary Issue, Journal of Material Science, vol. 51, issue. 1, pp. 107-125, DOI: 10.1007/s10853-015-9412-3, Jan-16 (Fatigue loadings and reliability)
- CARL SEQUEIRA: "Unsteady Gust Response of Tidal Stream Turbines", IEE Oceans 2014, St Johns, Newfoundland, pp. 1-10, DOI: 10.1109/OCEANS.2014.7003026, 14-19 Sept 2014 (Environmental Interaction)
- CHAPLIN, J., FARLEY, F., KURNIAWAN, A., GREAVES, D. & HANN, M.: "Forced heaving motion of a floating air-filled bag", International Workshop on Water Waves and Floating Bodies, Bristol, United Kingdom, 12-15 April 2015 (Novel marine energy systems and components)
- CHAPLIN, J.R., FARLEY, F.J.M., GREAVES, D.M., HANN, M., KURNIAWAN, A. & COX, M.: "Numerical and experimental investigation of wave energy devices with inflated bags", EWTEC conference, Nantes, France, 7-10 Sep 2015 (Novel marine energy systems and components)
- CHAPMAN, J.C., MASTERS, I., TOGNERI, M. & ORME, J.A.C.: "The Buhl correction factor applied to high induction conditions for tidal stream turbines", Renewable Energy, pp. 472-480, DOI: 10.1016/j.renene.2013.05.018, 2013 (Extreme loadings and durability)
- CHATZIRODOU, A. & KARUNARATHNA, H.: "Impacts of tidal energy extraction on sea bed morphology", 10th Young Coastal Scientists and Engineers Conference, Cardiff, United Kingdom, 2014 (Environmental Interaction)
- CHATZIRODOU, A. & KARUNARATHNA, H.: "Modelling the morphodynamic response of subtidal sandbanks to tidal energy extraction.", IMA International Conference on Flood Risk, Swansea, United Kingdom., 2015 (Environmental Interaction)
- CHATZIRODOU, A. & KARUNARATHNA, H.: "Modelling the response of subtidal sandbank dynamics to tidal energy extraction.", IAHR Congress, Hague, The Netherlands., 2015 (Environmental Interaction)
- CHATZIRODOU, A. & KARUNARATHNA, H.: "Numerical modelling of sea bed morphodynamics associated with tidal energy extraction", 3rd Oxford Tidal Energy Workshop, Oxford, United Kingdom, 7-8 April 2014 (Environmental Interaction)
- CHATZIRODOU, A., KARUNARATHNA, H. & REEVE, D.E.: "Investigation of deep sea shelf sandbank dynamics driven by highly energetic tidal flows", Marine Geology, 22-Apr-16 (Environmental Interaction)
- CHEN, L.F., ZANG, J., HILLIS, A.J., MORGAN, G.C.J. & PLUMMER, A.R.: "Numerical investigation of wave-structure interaction using OpenFOAM", Ocean Engineering, vol. 88, pp. 91-109, DOI: 10.1016/j.oceaneng.2014.06.003, 15-Sep-14 (Extreme loadings and durability)
- COLES, D.S., BLUNDEN, L.S. & BAHAJ, A.S.: "Experimental testing for spatially averaged numerical modelling of large marine current energy converter arrays", Grand Renewable Energy 2014 Proceedings, 28 July - 1 Aug 2014 (Arrays and farms)
- COLLIN, A.J., NAMBIAR, A.J., KIPRAKIS, A.E., REA, J. & WHITBY, B.: "Network design tool for the optimal design of offshore ocean energy array networks.", PowerTech conference, Eindhoven, Netherlands, 29 June - 2 July 2015 (Arrays and farms)
- COOKE, S.C., WILLDEN, R.H.J., BYRNE, B.W., STALLARD, T. & OLCZAK, A.: "Experimental Investigation of Thrust and Power on a Partial Fence Array of Tidal Turbines.", EWTEC Conference, Nantes, France, 7-10 Sep 2015 (Arrays and farms)
- COOKE, S.C., WILLDEN, R.H.J., BYRNE, B.W., STALLARD, T. & FENG, T.: "An Experimental Investigation of Blockage in a Short Fence Array of Tidal Turbines.", International Conference on Renewable Energies Offshore, Lisbon, Portugal, DOI: 10.1201/b18973-83, 24-26 November 2014 (Arrays and farms)

- CRADDEN, L., SYRDA, P., RIORDAN, C. & INGRAM, D.: "Accessibility Risk for Offshore Platforms During Maintenance", 10th EWTEC Conference, Aalborg, Denmark, 2-5 Sep 2013 (Fatigue loadings and reliability)
- CROFT, T.N., MASTERS, I. & LAKE, T.: "Methods for Individual Based Modelling of Harbour Porpoise", 10th EWTEC Conference, Aalborg, Denmark, 2-5 Sep 2013 (Environmental Interaction)
- CROZIER, R., BAILEY, H., MUELLER, M., SPOONER, E., & MCKEEVER, P.: "Analysis, design and testing of a novel direct-drive wave energy converter system", IET Renewable Power Generation, vol. 7, issue. 5, pp. 565-573, 2013 (Novel marine energy systems and components)
- CULLEY, D.M., FUNKE, S.F., KRAMER, S.C. & PIGGOTT, M.D.: "A hierarchy of approaches for the optimal design of tidal turbine arrays.", ICOE conference, Halifax, Canada, 2014 (Environmental Interaction)
- CULLEY, D.M., FUNKE, S.W., KRAMER, S.C. & PIGGOTT, M.D.: "Integration of cost modelling within the micro-siting design optimisation of tidal turbine arrays", Renewable Energy, pp. 215-227, DOI: 10.1016/j.renene.2015.06.013, Jan-16 (Arrays and farms)
- CULLEY, D.M., FUNKE, S.W., KRAMER, S.C. & PIGGOTT, M.D.: "Tidal stream resource assessment through optimisation of array design with quantification of uncertainty.", EWTEC conference, Nantes, France, 7-10 Sep 2015 (Environmental Interaction)
- DALY, T., MYERS, L.E. & BAHAI, A.S.: "Modelling of the flow field surrounding tidal turbine arrays for varying positions in a channel", Philosophical Transactions of the Royal Society Part A, vol. 371, issue. 1985, DOI: 10.1098/rsta.2012.0246, 2013 (Arrays and farms)
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- DE JESUS HENRIQUES, T.A., HEDGES, T.S., OWEN, I. & POOLE, R.J.: "Influence of Blade Pitch Angle on the Performance of Horizontal Axis Tidal Stream Turbines Subject to Wave-Current Interaction", Energy, pp. 166-175, DOI: 10.1016/j.energy.2016.02.066, May-16 (Extreme loadings and durability)
- DE JESUS HENRIQUES, T.A., TEDDS, S.C, BOTSARI, A., NAJAFIAN, H., SUTCLIFFE, C.J, OWEN, I. & POOLE, R.J.: "Performance of Horizontal Axis Tidal Turbines under Wave-Current Interactions", 8th World Congress on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics 2013, Lisbon, Portugal, 16-20 June 2013 (Environmental Interaction)
- DE JESUS HENRIQUES, T.A., TEDDS, S.C., BOTSARI, A., NAJAFIAN, H., HEDGES, T.S., SUTCLIFFE, C.J., OWEN, I. & POOLE, R.J.: "The effects of wave-current interaction on the performance of a model horizontal axis tidal-stream turbine", International Journal of Marine Energy, 2014 (Environmental Interaction)
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- DE JESUS HENRIQUES, T.A., TEDDS, S.C., BOTSARI, A., NAJAFIAN, H., SUTCLIFFE, C.J., OWEN, I. & POOLE, R.J.: "The Effects of Wave-Current Interactions on the Performance of a Model Horizontal Axis Tidal-Stream Turbine", 10th EWTEC Conference, Aalborg, Denmark, 2-5 Sep 2013 (Environmental Interaction)
- DOMAN, D.A., GRACIE, K., JOHNSTONE, C.M., MURRAY, R.E., PEGG, M.J. & NEVALAINEN, T.: "Dynamic testing of a 1/20th scale tidal turbine", 2nd Asian Wave and Tidal Energy Conference, Japan, 28 July - 1 Aug 2014 (Extreme loadings and durability)
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ELASHA, F., GREAVES, M. & MBA, D.: "A comparative study of the effectiveness of vibration and acoustic emission in diagnosing a defective bearing within a planetary gearbox", *Journal of Vibration and Acoustic*, ASME (Extreme loadings and durability)

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- ELASHA, F., TEIXEIRA, J.A. & MBA, D.: "Failure prediction of tidal turbine gearboxes", The 3rd International Workshop and Congress on eMaintenance, Luleå University of Technology, Sweden, pp. 49-54, DOI: 10.13140/RG.2.1.1080.4563, 17-18 June 2014 (Extreme loadings and durability)
- ELASHA, F., TOGNERI, M., MBA, D. & TEIXEIRA, J.A.: "Life Prediction of Tidal turbine Gearboxes", EWTEC conference, Nantes, France, 7-10 Sep 2015 (Extreme loadings and durability)
- EVANS, P., ARMSTRONG, S., WILSON, C., FAIRLEY, I., WOOLDRIDGE, C. & MASTERS, I.: "Characterisation of a highly energetic tidal energy site with specific reference to hydrodynamics and bathymetry", 10th EWTEC Conference, Aalborg, Denmark, 2-5 Sep 2013 (Environmental Interaction)
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- EVANS, P.S., LAZARUS, E., MASON-JONES, A., O'DOHERTY, D.M. & O'DOHERTY, T.: "Wake Characteristics of a Natural Submerged Pinnacle and Implications for Tidal Stream Turbine Installations", EWTEC conference, Nantes, France, 7-10 Sep 2015 (Extreme loadings and durability)
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