Report of President 2013/2014 - School of Civil, Structural & Environmental Engineering

Books Edited

Professor Michael Bruen


Peer Reviewed Journals

Dr Aoife Ahern


Dr Zeinab Almoniem Bedri


Professor Michael Bruen


Dr Jonathan Byrne


Dr Paul Doherty


Dr Kenneth Gavin


Dr Arturo Gonzalez


**Professor Debra Fern Laefer**


**Dr Michael Long**


**Dr Ciaran McNally**

Fenton, M, McNally, C, Byrne, J, Hemberg, E & O'Neill, M (2014) 'Automatic

**Professor Eugene O'Brien**


**Dr John O'Sullivan**


**Dr Patrick J Purcell**


**Dr Mark G Richardson**


**Dr Giovanni Spagnoli**


**Dr Richard Waldron**


**Dr Yaqian Zhao**

Zheng, Yucong; Wang, Xiaochang; Xiong, Jiaqing; Liu, Yongjun; Zhao, Yaqian; (2014) 'Hybrid constructed wetlands for highly polluted river water treatment and comparison of surface- and subsurface-flow cells'. *Journal of Environmental Sciences*, 26 (4):749-756.


Hu, Yuansheng; Zhao, Xiaohong; Zhao, Yaqian; (2014) 'Achieving high-rate autotrophic nitrogen removal via Canon process in a modified single bed tidal flow constructed wetland'. *Chemical Engineering Journal*, 237 :329-335.

Hu, Yuansheng; Zhao, Yaqian; Rymszewicz, Anna; (2014) 'Robust biological nitrogen removal by creating multiple tides in a single bed tidal flow constructed wetland'. *The Science of the Total Environment*, 470-471 :1197-1204.

Tony, Maha A; Purcell, PJ; Zhao, YQ; Tayeb, AM; El-Sherbiny, MF. (2014) 'Kinetic modeling of diesel oil wastewater degradation using photo-fenton process'. *Environmental Engineering and Management Journal*, in press.

**Conference Publications**

**Dr Aoife Ahern**


L Davison A Ahern and J Hine (2014) Attitudes to University Choice and the Influence on Routine and Infrequent Mobility *Irish Transport Research Network*.


**Dr Zeinab Almoniem Bedri**


**Professor Michael Bruen**


**Dr Jonathan Byrne**

Byrne, J., Nicolau, M., Brabazon, A. and O'Neill, M. (2014) An Examination of Synchronisation in Artificial Gene Regulatory Networks *IEEE World Congress on Computational Intelligence (IEEE WCCI 2014)*, Beijing, China, 2764 - 2769


**Dr Kenneth Gavin**


Prendergast, L and Gavin, K.G. (2014) Bridge scour monitoring using accelerometers placed on bridge piers - A numerical investigation *3rd International Conference of Road and Rail Infrastructure*,


Li, W. Gavin, K, Igoe, D and Doherty, P. (2014) Review of design models for lateral cyclic loading of monopiles in sand International Conference on Physical Modelling in Geotechnical Engineering,

Dr Amanda Gibney


Dr Arturo Gonzalez


Dr Michael Long


Dr Ciaran McNally


Professor Eugene O'Brien

eds. Civil Engineering Research in Ireland, Belfast, UK, 199 - 204


Cantero, D., OBrien, E.J. (2013) Tracing the evolution of bridge natural frequencies as a vehicle traverses the bridge . In: Z. Dimitrovoľová, J. Rocha de Almeida, R. Gonçalves eds. 11th International Conference on Vibration Problems, Lisbon,

Dr John O'Sullivan


Portugal,


**Dr Ian Packham**


**Dr Patrick J Purcell**


**Dr Giovanni Spagnoli**

Spagnoli, G; Doherty, P; Bellato, D; Weixler, L; (2014) Latest Technological Developments in Offshore Deep Mixing for Piled Oil and Gas Platforms. In: American Society of Mechanical Engineers eds. *ASME 2014 33rd International Conference on Ocean, Offshore and Arctic Engineering*, San Francisco,


**Dr Richard Waldron**


**Dr Yaqian Zhao**

Yang, SK; Zhao, YQ; Gao LC; Wang, D; (2014) Adsorption Behaviours of Oxtetracycline onto the Colloid in Sediments. In: J.J. O'Sullivan, M. Bruen (eds.) eds.


Zhao, YQ; Wang, JX; Meng, XX; Zhao, XH; Zhang, BL; Zhang, RX; Wang, T; Huang, NJ; Wang, SP; Wang, WK; (2013) Design of a novel constructed treatment wetland system with consideration of surrounding landscape In: Proc. 2013 Beijing International Environmental Technology Symposium,