

# General Program



## 6<sup>th</sup> Annual General Meeting of the Ireland Chinese Association of Environment, Resources & Energy (Ireland-CAERE)

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Supported by **Embassy of China in Ireland &  
National University of Ireland, Galway**

**8<sup>th</sup> May 2017**

ENG 2003, Engineering Building  
**National University of Ireland, Galway**  
University Road, Galway  
Ireland

## PROGRAM

Time	Speakers	Topic
8:30		<b>Registration</b>
		<b>Session Chair: Prof Xinmin Zhan (NUI Galway)</b>
9:00	<b>Mr Jiqing Hong</b> <i>Embassy of China in Ireland</i> <b>Prof Xinmin Zhan</b> <i>NUI Galway, Ireland</i>	Opening Address
9:10	<b>Prof Jun Ma</b> <i>Harbin Institute of Technology, P.R. China</i>	<b>Keynote Lecture:</b> Challenge of drinking water quality in urban area and technology development toward sustainable solution
9:40	<b>Dr Wanan Sheng</b> <i>UCC, Ireland</i>	<b>Keynote Lecture:</b> Challenges and progress in wave energy technologies
10:10	<b>Baiming Ren</b> <i>UCD, Ireland</i>	Making alum sludge as a novel value-added material for harmful gas purification: characterization and utilization
10:25	<b>Dr Yan Yang</b> <i>NUI Galway, Ireland</i>	Improvement of anaerobic digestion systems co-digesting food waste and pig manure with addition of trace metals
10:40	<b>Richen Lin</b> <i>UCC, Ireland</i>	Enhanced anaerobic digestion performance by graphene stimulated direct interspecies electron transfer
10:55	<b>Fei Gao</b> <i>TCD, Ireland</i>	Potential of using synthesized Nano-zeolite for nitrogen and phosphorus removal
11:10	<b>Coffee Break</b>	<b>Session Chair: Dr Yaqian Zhao (UCD)</b>
11:30	<b>Yumin Yuan</b> <i>NUI Galway, Ireland</i>	Using local Moran's I to identify pollution hotspots of rare earth elements in urban soils of London
11:45	<b>Konrad Metzger</b> <i>Teagasc &amp; NUI Galway, Ireland</i>	A preliminary study on infrared spectroscopy for soil compaction and soil physical quality in Irish tillage fields
12:00	<b>Yuting Meng</b> <i>NUI Galway, Ireland</i>	Spatial distribution patterns of phosphorus in top-soils of Greater London Authority area and their natural and anthropogenic factors
12:15	<b>Xiufeng Yue</b> <i>UCC, Ireland</i>	Assessing carbon mitigation options for Ireland in 2050 using marginal abatement cost curves based on an energy system model
12:30	<b>Lin Shi</b> <i>NUI Galway, Ireland</i>	Efficient solid-liquid separation of pig slurry using acidification and coagulation
12:45	<b>Songkai Qiu</b> <i>NUI Galway, Ireland</i>	Metagenomic insights into the microbial community structures in an intermittently aerated partial nitrification reactor
13:00	<b>Lunch</b>	<b>Session Chair: Dr Liwen Xiao (TCD)</b>
14:00	<b>Cheng Tang</b> <i>UCD, Ireland</i>	Nutrients removal by multi-electrode microbial fuel cell incorporating alum sludge-based constructed wetland in pilot scale
14:15	<b>Lei Xu</b> <i>UCD, Ireland</i>	Feasibility study of COD monitoring for constructed wetland via an embedded microbial fuel cell
14:30	<b>Dunzhu Li</b> <i>TCD, Ireland</i>	Cathode progress and practical application of single chamber microbial fuel cells

14:45	<b>Dr Sumona Mukherjee</b> <i>NUI Galway, Ireland</i>	Application of biopolymers for enhancing the dewaterability of sludge
15:00	<b>Walquiria Simplicio</b> <i>NUI Galway, Ireland</i>	Continuous mesophilic hydrolysis of sludge after thermal pretreatment
15:15	<b>Dr William Finnegan</b> <i>NUI Galway, Ireland</i>	LCA lifecycle assessment of fluid milk production in the Republic of Ireland
15:30	<b>Peter Leonard</b> <i>NUI Galway, Ireland</i>	Investigation into intermittently aerated sequencing batch reactor system efficiency for the treatment of Irish dairy processing wastewater
15:45	<b>Coffee Break</b>	<b>Session Chair: Dr Chaosheng Zhang</b>
16:05	<b>Prof Akihiko Terada</b> <i>Tokyo University of Agriculture and Technology, Japan</i>	<b>Keynote Lecture:</b> Application of counter-diffusion biofilm to biological nitrogen removal from wastewater: Performance, microbial community and mitigation of nitrous oxide emission
16:35	<b>Dr Yuansheng Hu</b> <i>NUI Galway, Ireland</i>	Selective enrichment of highly settleable microalgae consortia for advanced wastewater purification
16:40		Best Presentation Award