



ENGINEERS WITHOUT BORDERS BELFAST FRACKING DEBATE WEDNESDAY 30TH NOVEMBER DKB LG 012 1 30 – 4 30 PM

Affirmative

Professor Martin Atkins (QUB School of Chemistry and Chemical Engineering/Green Lizard Technologies/Former BP Chief Scientist: China)



Professor Martin Atkins holds the Chair of Chemical Innovation & Sustainability in the School of Chemistry & Chemical Engineering, is a Commercialisation Mentor and appointed CEO of a new QUB spin-out company in 2015 called Green Lizard Technologies Ltd (GLT) focusing on clean energy technologies such as energy storage, vegetable oil purification and re-processing, novel gas to liquids technologies e.g. clean diesel, and a variety of waste recycling technologies such as plastics and precious metals. He has a distinguished career in industry (34 years in the oil industry) including 29 years at BP as Chief Scientist China building the Clean Energy Centre in Dalian followed by 4 years as Chief Technologist for PETRONAS developing new technology options for crude oil, biomass and gas upgrading. GLT draws on his extensive experience in both industry and academia in the chemicals and clean energy sectors to integrate scientific and technological innovation within QUB to help solve industry problems and commercialize emerging technologies. The company focuses on developing leading edge technology solutions with partners on an International stage.

Dr Alastair Ruffell (Reader, QUB School of Natural and Built Environment)



Alastair is a Reader at Queen's University, Belfast and works mainly on geoforensics, especially the use of remote sensing and geophysics in searching the ground for humanitarian and legal reasons. Formerly a consultant and before that an oil company geologist who worked in the North Sea, Louisiana and Saudi Arabia. In consultancy has witnessed two fracking operations for enhanced hydrocarbon recovery.



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Thomas Cromie (AgriAD/Centre for Advanced Sustainable Energy Research)



Thomas Cromie is an experienced business and project developer, consultant and project manager with over ten years' expertise within the anaerobic digestion sector in the UK and Ireland. Specific technical areas: anaerobic digestion (project funding, contract negotiation, technology selection, biogas utilisation, project design; performance optimisation and enhancement; feedstock management; agriculture; waste); nutrients. He is active in renewable energy policy development (external stakeholder for Dept of Agriculture and Rural Development and for Dept of Enterprise Trade and Investment) and innovation support (Steering committee of the Centre of Advanced Sustainable Energy). His specialties include project funding for anaerobic digestion, contract development and relationship building; technology foresight; strategic innovation; advice to SMEs.

Against

David Surplus OBE (B9 Energy Storage Ltd/Centre for Advanced Sustainable Energy Research)



David Surplus graduated from the University of Newcastle-Upon-Tyne as a Marine Engineer in 1980 before joining the merchant navy to gain practical experience. He then worked as an Offshore Surveyor responsible on behalf of the UK D.En/DTI for the hook-up and commissioning of 4 offshore oil and gas platforms (Shell Tern, Shell Kittiwake, Total North Alwyn B and BP Forties Echo), during which time he became increasingly alarmed about climate change. He made the jump into renewables, and, along with 3 others formed the B9 Energy group, now the UK and Ireland's largest independent operator of wind plant with 37 wind farms currently under contract and have developed and built Northern Ireland's first utility scale anaerobic digestion power station. David is now carrying out extensive work on energy storage, micro-grids and district heating systems, and was awarded an OBE in the 2015 birthday honours list for "services to renewable energy especially in Northern Ireland".



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Professor John Barry (QUB School of Politics, International Studies and Philosophy/Green Party/ Centre for Advanced Sustainable Energy Research)



John Barry is Professor of Green Political Economy in the School of Politics, International Studies and Philosophy at Queens University Belfast. His areas of research include green moral and political theory; governance for sustainable development; the greening of citizenship and civic republicanism; green politics in Ireland, North and South; the political economy and politics of the transition to a low carbon energy economy. His numerous books include 'Rethinking Green Politics: Nature, Virtue and Progress (1999)' which was named winner of the Political Studies Association Mackenzie prize for best book published in political science. His latest book is The Politics of Actually Existing Unsustainability (2012) published by Oxford University Press.

Dr Gosia Swadzba-Kwasny (Research Fellow, QUB School of Chemistry and Chemical Engineering)



Dr. Małgorzata Swadzba-Kwasny (Gosia) graduated with MSc Eng in Chemical Technology from the Silesian University of Technology (Gliwice, Poland) before commencing her PhD at the QUILL Research Centre (QUB), under the supervision of Prof Ken Seddon. After graduation, Gosia continued her research in QUILL as a post-doc; in addition to her own research, she was acting as a team leader on industry-sponsored projects. In 2015, Gosia took up an independent position of Queen's University Fellow in the area of Green Chemistry, and is now directing her own research group.

"I believe that not only chemistry, but all scientific and technological developments, should be underpinned by the principle of sustainability, allowing for economic and social development of our communities, whilst protecting the environment for the generations to come. Among the key issues, selecting pathways to ensure energy security must be made in a fact-based manner, ensuring the route taken is the most beneficial for the local community, both in the short and long term".



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