



DCU WATER INSTITUTE PRINCIPAL INVESTIGATORS

PI NAME:	Dr Stephen Daniels
SCHOOL:	School of Mechanical and Manufacturing Engineering
PI INFORMATION:	<p>Dr. Stephen Daniels is a faculty member of the School of Electronic Engineering, at Dublin City University. He is currently serving as Director of the Sustainable Economies and Societies Research and Enterprise Hub and is executive director of the National Centre for Plasma Science and Technology. Additionally, he is Director of the Energy and Design Laboratory, the Surface Science Laboratory, and the Nanomaterials Processing laboratory at DCU, a multidisciplinary research team with extensive expertise in plasma technology and energy systems. He has a significant involvement in several large scale research initiatives and centres, including the Precision strategic research cluster, the Biomedical Diagnostics Institute, and the Marine and Environmental Research Hub (MESTECH). To date Stephen has authored more than 90 peer reviewed journal publications, 10 patents, and over 100 international conference contributions.</p> <p>Stephen holds a B.Eng in Electronic Engineering and Ph.D from DCU and has over 10 years industrial experience, including 7 years as a technologist with Applied Materials and he maintains significant national and international linkages within the broader plasma and semiconductor processing industry. Stephen has founded several successful technology companies, including Qualflow Systems Ltd, Lexas Research, Arann Healthcare and Sonex Metrology Ltd. Stephen has also been the recipient of numerous awards for innovation. Most notably, in 2012, Stephen was awarded Enterprise Ireland's Manufacturing, Engineering and Energy Commercialisation Award he received this award for his commitment to commercialisation.</p> <p>Expertise</p> <p>Stephen currently leads a research of team of 14 PhD students and 8 postdoctoral researchers and with active interests in plasma</p>

	<p>metrology and control for nanomanufacturing, atmospheric plasma source design and diagnostics for decontamination and sterilization, plasma surface engineering for biosensors, synthesis of thin film materials for photonic devices, and design and characterisation of energy efficient devices. In collaboration with researchers from the RCSI, Stephen is developing new plasma technology for the decontamination of environmental sources for healthcare-associated infections, with work funded by the HRB and SFI.</p>
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