Dr Richard Barker

Dr Richard Barker is an Associate Professor in Corrosion Science and Engineering at the University of Leeds, UK. Richard attained his PhD from the University of Leeds in 2013, receiving the award of 'Research Excellence' based on the significant industrial impact generated from his research.

Richard's specific research interests lie in the areas of electrochemistry, corrosion science and corrosion engineering, particularly in the context of asset integrity in the energy and low carbon technologies sectors. Richard has authored over 70 peer-reviewed journal papers in the last 6 years, with nearly half having industrial co-authors.

Over the past 10 years, Richard has established an international profile in the field of corrosion science and engineering, collaborating with some of the most notable researchers in the field of corrosion science. His research portfolio includes Principal Investigator on >£2m of research projects funded through research councils and industry, and Co-Investigator on >£10m projects thus far in his career. Richard has authored a number of invited review papers, with emphasis on corrosion product formation, and pipeline integrity in carbon capture and storage.

Richard has established a reputation for seeding speculative research that, over a number of years, transitions through to generate industrial impact. This includes supporting the development of new inhibitor chemistries and dosing strategies for service companies, and driving significant changes in corrosion management strategies for oilfield operators. In 2019, Richard received funding from the Engineering and Physical Sciences Research Council (EPSRC) (£420k), to focus on understanding the effects of transition metal doping of magnetite corrosion products. In 2020, Richard was appointed to Fellow of the Institute of Corrosion based on his contributions to the field. He is currently leading the corrosion research activities at the University of Leeds, managing a team of 21 PhD students and 5 post-doctoral students.