

Sean Moran FIChemE EUR ING SFHEA PGCHE CEng MSc BSc

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Qualifications

FIChemE	Fellow of the Institution of Chemical Engineers	2013
EUR ING	FEANI	2013
SFHEA	Senior Fellow of the Higher Education Academy	2011
PGCHE	University of Nottingham	2011
CEng	Chartered Chemical Engineer	1995
MSc	Biochemical Engineering, University College London	1991
BSc	Science and the Environment, Leicester Polytechnic	1990

Profile

Sean Moran is a Chartered Chemical Engineer with over twenty years' experience in process design, commissioning and troubleshooting. He started his career with international process engineering contractors, and worked on projects across the UK water and pharmaceutical industries before setting up his own consultancy practice in 1996.

His specialist area is the treatment of water, sewage and industrial effluent plants and he has designed, commissioned and consulted on a vast range of projects, from individual residential plants and specialist industrial units through to large municipal water treatment projects across the UK, Europe and the Middle East.

Sean is the author of IChemE textbooks on process plant design and plant layout and also chairs the IChemE East Midlands Regional Group.

Key Areas of Expertise

Design	Design, procurement and commissioning for national and international water, sewage and effluent treatment projects; hydraulic design and commissioning consultancy for prestigious water feature projects; textbook authorship
Troubleshooting Consultancy	Troubleshooting, remedial design and re-commissioning of water, sewage and effluent treatment plants for municipal and private clients, at all scales of operation
Advisory	Membership of UK Government Technical Advisory Panels in resource efficiency, environmental consultancy and biotechnology
Expert Witness & Consultancy	Expert witness in contractual, tort and taxation disputes; technical assistance with planning objections; due diligence for mergers & acquisitions projects
Training	Bespoke lecturing and training in Process Engineering for universities, private clients and public-access events worldwide

Examples of Projects Undertaken

1999-2016	(Various confidential private clients): Design, troubleshooting, modification and commissioning of packaged and custom designed water, sewage and effluent treatment plants in residential, municipal and industrial settings
2015	CPR Part 35 Single Joint Expert Instruction – contractual dispute relating to completion of effluent treatment plant works (settled) CPR Part 35 Expert Witness Instruction – hydraulics and drainage dispute, including evidence at County Court (judgement for my client)
2013-2014	(Three confidential private clients): Product design and development consultancy for sewage and sludge treatment
2013-2014	CPR Part 35 Expert Witness Instruction from confidential client – taxation dispute relating to sewage sludge treatment (settled) CPR Part 35 Expert Witness Instruction – contractual dispute relating to specification/installation of sewage treatment plant (settled)
2012	CPR Part 35 Expert Witness Instruction – dispute relating to the operation of a municipal sewage treatment works (settled)
2012	University of Nottingham, Super-Critical Water Oxidation Research Group: Outline engineering design of a super-critical water oxidation plant
2012	EPC Groupe UK: troubleshooting and optimising effluent treatment at explosives manufacturing plant
2012	PriceWaterhouseCoopers LLP: Consultancy associated with water treatment industry and equipment suppliers, to inform a merger and acquisition transaction
2011	Rawat Dar Al Handasa Iraqi: Hydraulic design and surge analysis for river intake structure, pumping station and twin 11km pipelines for Ramadi Water Treatment Plant, Iraq
2011	Heyworth: Technical expert consultancy for planning objection
2011	UK Marine & Coastguard Agency via SLR Consulting Ltd: Development of a decision-making tool to be used in the response to coastal oil spills
2010-2012	Barratt Homes via Wilson Bailey Partnership Ltd: Troubleshooting problems with domestic sewage treatment plant, design and commissioning of solution
2009-2010	Colorcon Ltd: Troubleshooting problems with pharmaceutical effluent treatment plant, design and commissioning of solutions
2005-2007	The Kerrygold Co, Ltd: Technical expert consultancy supporting a planning objection to a sewage pumping station near a cheese distribution depot
2004	Campbell's Grocery Products: Design and procurement of industrial effluent treatment plant for a food production facility
2003-2012	SLR Consulting Ltd: Commissioning of two water treatment plants, troubleshooting of various water and effluent treatment plants, PCB treatment consultancy, Health Safety and Environment surveys
2002	Alnwick Castle, UK: Hydraulic design of new water features for stately home

2001-2010	Envirowise: Provision of advice on environmental, water and effluent treatment matters to many hundreds of UK businesses on behalf of the government-funded Envirowise programme. 150+ site visits.
1996-1999	Astra Zeneca Pharmaceuticals: Design of effluent treatment plant, completion of HAZOP study
1993-1995	Jellyholm Water Treatment Works: Refurbishment of the existing filter station to two-stage DAF and RGF (£5.4M project)
1991-1993:	Design of Riva Sewage Works, Turkey (\$1.8Bn project)

Employment

1999-Date	Expertise Limited <i>Managing Director & Principal Consultant</i>
2011-2015	University of Nottingham <i>Associate Professor of Chemical & Environmental Engineering</i>
1996-1999	M.P.S. <i>Technical/Commercial Director</i>
1995-1996	Birtley Engineering <i>Senior Proposals Engineer</i>
1993-1995	Purac (Now Enpure) <i>Proposals Engineer, Senior Process Engineer</i>
1991-1993	Water Engineering (Now WABAG) <i>Projects Engineer</i>

Memberships

Chair, IChemE East Midlands Regional Committee	2013-
Fellow of the Institution of Chemical Engineers	2013-
Provisional Member, Expert Witness Institute	2013-
Fellow of the Higher Education Academy	2011-
Member, IChemE Water Subject Group Committee	1998-2000
Chartered Member of the Institution of Chemical Engineers	1995-

Awards

Lord Dearing Award for Teaching & Learning, University of Nottingham	2013
Exxon Mobil Excellence in Teaching Award	2012
Royal Academy of Engineering, Professional Development Award	2011

Relevant Training

Expert Witness Report Writing	Expert Witness Institute	2013
Cross Examination Skills	Expert Witness Institute	2013
Successful Communication at Experts' Meetings	ProSols	2014