SYNOPSIS

Prof. Simon Judd occupies the Maersk Oil Professorial Chair in Environmental Engineering at the Gas Processing Center of Qatar University. He was Professor in Membrane Technology at the Cranfield Water Science Institute at Cranfield University for 24 years. He has over 26 years' post-doctorate experience in academic and industrial research and development incorporating all aspects of water and wastewater treatment technology, with an extensive network of contacts within the water industry both nationally and internationally from procuring and/or managing a number of large collaborative R&D programmes. Simon has managed many other research projects which have primarily been based on membrane technology, successfully supervising 32 research student programmes (23 at doctorate level). He has published extensively in the peer-reviewed research literature, with over 170 publications and an *h* index of 39 on SCOPUS and 50 on Google Scholar (as at October 2016), and has authored/co-authored five textbooks in membrane and MBR technology and two in general water/wastewater treatment technology. He has provided keynote presentations at many international conferences as well as consultancy to clients based across Europe, America, the Middle East and Far East. He is a Fellow of the Royal Society of Chemistry and Associate Fellow of the Institution of Chemical Engineers.

RESEARCH INTERESTS

Key research topics have concerned membrane and chemical processes, as applied to a wide range of applications across water and wastewater treatment. Current focus is on the application of advanced technologies to the treatment of wastewater generated from oil and gas industry operations.

Although active in other areas it is the Simon's research in membrane technology that has achieved the greatest impact. Simon has supervised, or is currently supervising or cosupervising, a total of 33 research students (25 PhD/EngD, 8 MPhil/MSc by Research) in total, with at least 23 of these relating to membrane technology. He has also conducted research into chemical treatment of water and wastewater (chlorination, coagulation, magnetic conditioning, gas precipitation, chemical reduction and carbonation).

Membrane and membrane bioreactor (MBR) technology has provided the subject for ~90 of the papers he has published, with more than 60 in MBR technology specifically. Four major national research council-funded programs have been procured based on MBR technology, with a further three EU-sponsored programs and many more wholly industrially-funded programs. The research has led to a significant addition to knowledge on process operation and costs, and it is this focus on design and operation optimization that forms the basis of his prospective research in produced water and other wastewater streams generated in the O&G sector.

HIGHLIGHTS

- Held professorial posts at two different universities in the Gulf and the UK.
- >26 years' post-doctorate experience in municipal and industrial water and wastewater treatment technology development, including project procurement, management and delivery.
- Management of >15 long-term consortium projects for UK and overseas water utilities, consulting and contracting clients, mainly in membrane technology and including micropollutant fate in wastewater processes, water reuse and industrial effluent treatment.
- Lead principal investigator of >10 funded research proposals under national research programmes in the UK (EPSRC) and Qatar (QNRF-NPRP).
- Procurement of >£7m of research funding, almost 50% directly from industry, in both the UK (through UKRC, EUFP, etc) and Qatar (through NPRP).
- >170 publications in peer-reviewed journals; *h* index of 39 on SCOPUS, 50 on Google Scholar (Oct 2016).
- Supervision of >30 completed research student programmes and >90 masters' thesis projects.
- Consultancy provided to clients internationally (North, Central and South America, Europe, Middle East and Far East) on membrane/MBR technology, in particular relating to municipal wastewater treatment and reuse, ranging from market/technology appraisal to troubleshooting of full-scale installations.
- Author of "The MBR Book" (two editions), "Watermaths" (two editions), and "Industrial MBRs". Co-author of three other reference/text books on Membrane Technology and general water and wastewater treatment design.
- Extensive networking across UK and EU research groups: key collaborator in three large EU Framework MBR projects.
- Extensive professional links with senior managers across UK and international water industry, in particular membrane and MBR technology suppliers, practitioners, consultants and end users.
- Key applied research in cost benefit analysis and process optimisation for membrane technologies, and membrane bioreactor technology in particular.
- Editorial board/committee member of four learned journals.
- Owner of *The MBR Group* on Linkedin >5000 members); ~3500 followers on LinkedIn.
- Regular blog on *The MBR Site* (300-600 page views per blog)

| PERSONAL | INFOR | RMATION | V |
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Name: Simon Jon JUDD Date of birth: 3 4 60
Marital status: Married, 2 children Nationality: English

HIGHER EDUCATION

Cranfield Institute of Technology, Beds. 1985-1988

Ph.D.: Title: *Electrophoretically-assisted depth filtration*

University of Southampton, Hants

M.Sc.: Electrochemical Science 1984-1985

University of Bath, Avon 1978-1982

B.Sc. (Hons): Chemistry with Industrial Training, II(ii)

EMPLOYMENT

Qatar University, Qatar 2012-

Position held: Maersk Oil Professorial Chair in Environmental Engineering

Cranfield University, Beds. 1992-2016

Position held: Head of Centre, Water Science 2004-2008

Chair in Membrane Technology2003-Reader in Water Sciences.2000-2003Senior Lecturer in Water Sciences.1997-2000Lecturer in Water Sciences1992-1997

Company business: Post-Graduate Higher Education, Water Treatment R & D.

Winfrith Technology Centre, Dorset 1989-1992

Position held: Research Project Manager in Chemical Process Development

Department.

Company business: Nuclear Waste Treatment R & D.

Racecourse Security Services Laboratories, Suffolk 1982-1984

Position held: Scientific Officer in Routine Laboratory.

Company business: Drug Screening

A.E.R.E. Harwell, Oxon. 1980-1981

Position held: Student Scientific Assistant in Applied Electrochemistry Group.

Company business: Electrochemical Technology R & D.

MEMBERSHIP OF PROFESSIONAL BODIES

Fellow of the Royal Society of Chemistry (CChem). Associate Fellow of the Institution of Chemical Engineers.

PUBLICATIONS

Peer-reviewed journals

Judd, S. J. (2016). The status of industrial and municipal effluent treatment with membrane bioreactor technology, Chemical Engineering Journal, 305 37-45.

Alketife, A. M., Judd, S., & Znad, H. (2016). Synergistic effects and optimization of nitrogen and phosphorus concentrations on the growth and nutrient uptake of a freshwater chlorella vulgaris. Environmental Technology (United Kingdom), *in press*.

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Lo, C. H., McAdam, E., & Judd, S. (2015). The cost of a small membrane bioreactor. Water Science and Technology, 72(10), 1739-1746.

Judd, S., van den Broeke, L. J. P., Shurair, M., Kuti, Y., & Znad, H. (2015). Algal remediation of CO₂ and nutrient discharges: A review, Water Research, 87, 356-366.

Metcalfe, D., Rockey, C., Jefferson, B., Judd, S., & Jarvis, P. (2015). Removal of disinfection by-product precursors by coagulation and an innovative suspended ion exchange process, Water Research, 87, 20-28.

Sutherland, S., Parsons, S.A. Daneshkhah, A., Jarvis, P., and Judd. S.J., (2015). THM precursor rejection by UF/NF membranes treating Scottish surface waters, Separation and Purification Technology, 149, 381–388.

Judd, S., Qiblawey, H., Al-Marri, M., Clarkin, C., Watson, S., Ahmed, A., Bach, S. (2014). The size and performance of offshore produced water oil-removal technologies for reinjection, Separation and Purification Technology, 134, 241-246.

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Verrecht, B., Maere, T., Benedetti, L., Nopens, I., Judd, S. Model-based energy optimisation of a small-scale decentralised membrane bioreactor for urban reuse (2010) Water Research, 44 (14), 4047-4056.

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Fletcher, H., Mackley, T., Judd, S. The cost of a package plant membrane bioreactor (2007) Water Research, 41 (12), 2627-2635.

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