

CURRICULUM VITAE (CV) FOR SEAMUS M CRICKLEY



KEY DATA

Holds Honours Degrees in Agricultural Engineering (1970) specialising in food, chemical and biological processes. Forty-five (45) years' experience in Water & Wastewater and Energy related services including pre-design studies, R&D, detailed process design – municipal and industrial – validation of designs submitted for contractual purposes and final certification of working systems.

Experience on new and existing systems in Ireland, UK, USA, Nigeria, Lithuania, Czech Republic, Poland, Turkey, Iraq, Iran, KSA, West Africa and The Bahamas.

He has been involved in a specialist capacity on approximately 350+ projects providing unrivalled services on global water/wastewater engineering ranging from forward planning to conceptual BAT implementation to detailed design to project implementation and to post-commissioning testing.

QUALIFICATIONS

Batchelor of Engineering (B.E.) (Agricultural Process Engineering ,(University College Dublin (UCD)) 1970

Post-grad Water and Wastewater (UCD) 1971-1972

Chartered Engineer (C.Eng.), Institution of Engineers of Ireland (1978)

Fellow, Institution of Engineers of Ireland (1993)

Duke Leadership Certificate (2011)

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

Engineers Ireland (C.Eng., F.I.E.I.)

European Engineer (Eur.Ing., FEANI)

Environment Federation (WEF)

EMPLOYMENT HISTORY

2012-Present WEW Engineering Ltd., Consulting Engineers

Founder Director responsible for overall development and Process Design.

1990-2012 Treatment Systems Ltd.

Founder Director responsible for Engineering Development with bias to process applications. R & D and Emerging Technologies.

1974-1990 Mahon & Mc Philips

Responsible for works / process design and proposal details with ongoing R&D and works investigation at preliminary and as-built stage.

1970- 1974 Irish Co-op Organisation (IAOS)

Responsible for new works design of larger industrial WW plants to comply with new discharge licences.

SELECTED RELEVANT PROJECTS

Glanbia Plc, Ireland (Multi-Phase Developments over approx. 25years)

Conceptual planning, R&D report with main works upgrade requirements, validation of main works detailed design for population equivalent of 500,000 using membrane technology and final effluent recycle for services.

Kilkenny Sewage Treatment Works, Ireland

Detailed process and works design for municipal sewage plant with industrial pre-treatment operations; overall population equivalent 120,000.

Lithuania

Actuarial site review and cost analysis of Druskininkai sewage treatment plant, Lithuania and direct report to EU.

Dairygold Foods, Ireland

Design of multi-phase upgrade of Dairygold Milk Processing WWTP, 36,000 PE (2008).

Centocor Biologics (Johnson & Johnson) Cork—Ireland

Completion of process and integrated works design/procurement with warranty of biopharma wastewater plant including definition of treatability ratings and using available technology in membrane bioreactors (2008 & 2016-17).

Bristol Myers Group, Dublin, Ireland

Project Director (Engineering) for ongoing projects at Watery Lane Plant including aeration upgrade, reactor roofing, odour study/abatement plant and clarifier upgrade. Process Director on in-house pilot studies, main works design/testing and commissioning at the Cruiserath plant: specialist in-house advice on upgraded works management (2017).

Abbott Group, Ireland, India and China

Multi-stage process design with warranty of wastewater system including N/P removal with high quality output and sludge conditioning/drying. Ongoing client liaison for approx. 20 years. Specialist turnkey services at Cootehill (Ireland) and Jhajgadia (India).

Regional Water Planning and Design, Ireland

Co-ordination of treatment locations, processes and compliant works to facilitate potable water supply in approximately forty rural areas of Ireland (2000-2009).

PepsiCo International, Ireland

Assessment of existing treatment works and completion of upgraded designs for 8 No. International PepsiCo Plants to new EHS Standards. Design/USDP on new works upgrade, Cork, Ireland.

Slane Castle Whiskey Distillery, Ireland

Design (EPCM) of complete waste-to-energy system and polishing to a high quality river standard for the Brown-Forman Group.

Teagasc Anaerobic Digestion, Ireland

Process, Mechanical, Electrical Design Specifications, RFT, Tender assessment and site construction for reviews for new grass and other solids research digester/CHP system at Grange, Ireland to assess Green Energy.

Regeneron, Ireland

Process/Works specialist design consultant on new BioPharma WWTP at Limerick, Ireland.

Pharmachem, The Bahamas

Engineering Consultant on project wastewater treatment works design team (2017-)

Abijan Landfill , Ivory Coast, Africa

Leachate – full treatment works design.

PUBLICATIONS AND PRESENTATIONS

- Biological Treatment of Food Industry Wastewater (1992)
- Treatment of Agricultural Wastes (1984).
- Design of Nutrient Removal Systems (2003)
- ABPR Technology (2007)
- Anaerobic Digestion of Meat Processing Wastes (2010)
- Emerging Technologies in Nutrient Removal (2011)

- Emerging Concepts in Treatment Works Design (2014)
- Emerging Concepts in Treatment Works Design : Pharma Industry (2014 & 2015)
- Sustainable Biological Processes (2015).
- Wastewaters from the Pharma– Biopharma Industries (2016)
- Techno-Economics of Slane Distillery Co-Products Reuse Design.