



Tim Evans

BSc MS PhD CChem CEnv FCIWEM MRSC.



Dr Evans specialises in sustainable solutions for organic residuals that are appropriate to local situations. Many technologies are associated with the breadth of this specialism. He is also involved with sustainable urban drainage, resource recovery, renewable energy, markets, selling and branding.

Dr. Tim Evans created TIM EVANS ENVIRONMENT in 1999 as an independent consultancy whose mission is to help clients to create cost-effective solutions for wastewater, biosolids and other organic residuals that are sustainable and appropriate to their needs and local situations. Prior to this, for 25 years he worked for Thames Water creating quality assured, environmentally controlled biosolids recycling for 7 million people and 90 WwTW and also business planning and strategy design.

TIM EVANS ENVIRONMENT has extensive experience of design, benchmarking, competitor analysis, strategic assessment, HACCP, quality assurance, treatment, marketing, sales, auditing and operational management within an environmental protection programme. It has an extensive network of contacts internationally.

TIM EVANS ENVIRONMENT is not linked to any particular technology and although it does work for technology providers it is independent of them.

A key principle is that solutions must comply with current (and reasonably anticipated) legal requirements, and that this compliance should be demonstrable. On top of this the concerns and perceptions of stakeholders should be recognised. If recycling is involved there should be a market for the material being produced, and there should be due diligence and an awareness of emerging issues.

EDUCATION

B.Sc. (Soil Science) University of Newcastle upon Tyne

M.S. (Soil Science) University of Wisconsin, Madison

Ph.D. (Soil Science) University of Newcastle upon Tyne

PROFESSIONAL AFFILIATIONS

Chartered Institution of Water and Environmental Management (CIWEM)
Chair, Wastewater Management Panel
Royal Society of Chemistry (RSC)
Water Environment Federation (WEF)
Member, Biosolids Technical Bulletin Editorial Advisory Board
Foundation for Water Research (FWR)
Technical Secretary, Wastewater Research & Industry Support Forum
International Water Association (IWA)
Soil Science Society of America
British Society of Soil Science
British Standards Institution (BSI)
Chair, AW/20 Topsoil and other growing media
Chair, EH/5 Characterization of sludges
Member, CII/37 Fertilizers and liming materials
Member, EH/4 Soil quality
European Standards Committee (CEN)
Convener, TC/308 WG3 Characterization of sludges
Member and Past Chair, TC/223 Soil improvers & growing media

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Highlights of Recent Projects:

- Sidestream treatment of dewatering liquor that revealed ammonia and phosphate recovery to be financially competitive with 'conventional' treatment
- Environmental impacts of food waste disposers that revealed them to be cost effective, user friendly and to have a good carbon footprint
- Hazard Analysis & Critical Control Point for a thermophilic aerobic food waste digestion plant, advice on process improvement and on agronomy for the digestate
- Technology evaluation, market and competitor analysis for a new sewage sludge treatment process to advise on the market place into which the entrepreneur was trying to break.
- Outline designs and financial evaluations of biogas plants both as farm diversifications and for a waste treatment company.
- Expert witness work for a landowner adjacent to an odour emitting WwTW that was also spreading raw sludge on land around the works. Faced with the technical data, the WwTW ceased sludge spreading and instituted more robust treatment processes. This was a satisfactory outcome for the client.

Employment History

- **TIM EVANS ENVIRONMENT**, proprietor 1999-present
- **BSI and CEN**, Chairman, convenor or member of various technical committees, 1986 – present
- **Foundation for Water Research**, Technical Secretary to the Wastewater Research and Industry Support Forum, 2002 – present
- **University of Hertfordshire**, External Examiner, 2006 – 2009
- **Chartered Institution of Water & Environmental Management**, Chairman of the Wastewater Management Panel, 1994 – present
- **Atkins**, Senior consultant and Head of Environmental Assurance, 1999
- **Thames Water**, Quality & Commercial Manager biosolids, 1988 – 1999
- **Thames Water**, Business Planner, 1984 – 1988
- **Thames Water**, Technologist, 1983 – 1984
- **Thames Water**, London biosolids manager, 1975-1983
- **University of Newcastle upon Tyne**, Research Assistant, 1971 – 1975
- **University of Wisconsin, Madison, USA**, Research Assistant, 1969 – 1971

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Publications

Dr. Evans authored and co-authored more than 130 book chapters, reports, papers in peer reviewed journals and conference papers. The following is a selection:

Articles

Evans, T.D. (2011) Domestic food waste, the options compared (particularly food waste disposers) and their carbon and financial costs. *Municipal Eng. in press*

Evans, T.D.: Andersson, P.: Wievegg, A.: Carlsson, I. (2010) Surahammar – a case study of the impacts of installing food waste disposers in fifty percent of households. *Water Env. J.* 241 309-319

Evans, T.D. (2008) Nutrient and carbon recovery from household and food biowastes. *Int'l. Fert. Soc. Proc.* 635.

Books

Evans, T.D. and Johnston, A.E. (2004) *Phosphorus and crop nutrition: principles and practices. In Phosphorus in Environmental Technologies: Principles and Applications.* Valsami-Jones, E. (ed) IWA Publishing, ISBN 1 84339 001 9. London

Evans, T.D. (2003) *Hazard Analysis and Critical Control Point (HACCP) for Composters* ISBN 0-9532546-6-6 The Composting Association, Northampton, England

Technical Reports

Evans, T.D. (2011) *Retrofitting Green Infrastructure For Rainwater - What's Stopping Us?* report of FWR WaPUG workshop. FWR, Marlow, England

Evans, T.D. and Eadon, A.R. (editors) (2006) *Workshop On Urban Run-Off Modelling -Why Not Do It Properly?* report of FWR WaPUG workshop. FWR, Marlow, England

Evans, T. D. (2007) *Environmental Impact Study of Food Waste Disposers: a report for The County Surveyors' Society & Herefordshire Council and Worcestershire County Council,* published by Worcestershire County Council.

Evans, T.D. (2004) *Urban Rainfall & Run-Off* (ed) report of FWR WaPUG workshop. FWR, Marlow, England

Patents

Evans, T. D. (2004) *Apparatus and method for preserving material.* Patent Application Number GB0415602.2 The Patent Office www.patent.gov.uk

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Conference Papers

Evans T.D. (2010) Fertilisers - vital for food, fibre and carbon capture but increasingly scarce especially phosphate.

Scanning the Agricultural Horizon to 2050. SCI, Syngenta, UK

Evans T.D. (2010) Wastewater Management – An Additional Paradigm.

4th European Water and Wastewater Management Conference. Leeds, UK

Evans T.D. (2009) Peak phosphorus – conserving the world's most essential resource. Proc. 14th European Biosolids and Organic Resources Conf., Leeds.

Evans T.D. and Thompson, A. (2009) Recovering ammonium fertiliser – an alternative to blowing it away. Proc. 14th European Biosolids and Organic Resources Conf., Leeds, UK

Evans, T.D. (2008) An independent review of sludge treatment processes and innovations. Proc. Australian Water Assoc. IV Biosolids Conf. Adelaide

Evans, T. D.; Boor, M. and MacBrayne, D. (2007) Biofertiliser plant design – food

waste to biofertiliser and biogas. Proc. 12th CIWEM European Biosolids & Biowastes Conference, 13-15 November 2007 AquaEnviro, Manchester

Evans, T.D. (2007) Recovering ammonium and struvite fertilisers from digested sludge dewatering liquors. Proc. IWA Specialist Conference: Moving Forward – Wastewater biosolids sustainability. Moncton, NB, Canada

Evans, T.; Boor, M.; and Cherry, R. (2006) Airbeam roller stockpile covers - practicable and re-usable solutions for containment, preventing odors and rewetting by rain and for enhancing fecal coliform die-off. WEF 20th Annual Residuals & Biosolids Conf., Cincinnati