



Dr Bruno Erasin, BSc, PhD **Principal Engineer/Consultant**

Bruno is a graduate of the University of York. He gained a PhD in biochemical engineering at Cranfield University studying the effects of heavy metal and organics on anaerobic digestion processes.

In 1994 he joined IBS Viridian Ltd to develop new environmental technologies for wastewater treatment, land remediation and environmental products. From 1996 onwards he gained expertise in biological VOC abatement systems through development of the innovative and patented BIOVOX® process. He became responsible for the marketing, design, specification, project management, installation and operation of full-scale BIOVOX® plants across a wide range of industry sectors using solvents, and was also a DTI BIOWISE appointed consultant for air abatement.

He was Technical Partner at ABC Environmental Ltd, from December 2001 to May 2003. His responsibilities included technical consultancy on air abatement systems, further improvement of biological VOC abatement systems, development of an innovative biological effluent treatment process and consultancy to assist IPPC applications.

Bruno joined Ecologia in June 2003 to provide assistance in process engineering and consultancy and develop expertise in the technical implementation of a large range of remedial technologies including dual-phase extraction, SVE, bioslurping, pump and treat and steam-enhanced contaminant extraction. Bruno has also contributed to the development of the ECOVAC system, which is Ecologia's answer to the rapid remediation of some types of domestic heating oil spill.

Bruno has also developed expertise in dealing with microbial contamination incidents caused by raw sewage spills, flooding, spread of infectious diseases (*E. coli* O157) and proliferation of fungal/mould growth. This work required initial monitoring and assessment, development of decontamination/disinfection methodologies and monitoring/certification of successful clean-up and closely liaison with local Environmental Health Officers and UK Health Protection Agency.

Bruno's background in VOC abatement systems also contributed to Ecologia's advancement and expertise in the implementation of ambient and soil vapour monitoring methodologies and procedures for the verification of remedial works.

Technical Papers

Erasin, B.R., Warris, A.K. and Wheatley, A.D. (1992). Aeration control of sewage treatment using a biosensor. In: Biological indices for environmental monitoring. Bonnoto, S., Nobili, R. and Revoltella, R.P. (Edts.), *Serono Symposia, Rome, Series 27*, 259 – 269.

Erasin, B.R., Turner, A.P.F. and Wheatley, A.D. (1994). A fixed film bioassay for the detection of micropollutants toxic to anaerobic sludges. *Analytica Chemica Acta*, 298, 1-10.

Erasin, B.R., Turner, A.P.F. and Wheatley, A.D. (1994). A semi-continuous bioassay to monitor micropollutants in wastewater influents to anaerobic digesters. In: Poster-papers, *Seventh International symposium on Anaerobic Digestion*, January 23 –26, 1994, South Africa, pp. 6-9.