

Technical Meeting

Thursday 7 May 2009



Speaker: Professor R. Kerry Rowe, FRSC, FCAE, FEIC, FASCE, FIEAust
Queens's University, Kingston, Canada

Latest research into the service life of HDPE geomembranes used in primary and secondary MSW landfill liners

This presentation summarizes 12 years research into the service life of HDPE geomembranes liners used for MSW landfills. It discusses the effects on geomembrane service life of: (a) the immersion fluid, (b) geomembrane thickness, (c) the presence of an underlying clay liner, (d) the protection layer above the geomembrane, (e) applied stress, (f) location in the liner system (i.e. the difference between service life for primary and secondary liners), and (g) the time-temperature history of the liner. It is shown that under many circumstances the service life can be expected to be many centuries (or longer) but that there are also circumstance when the service life could be reduced to a few decades. The service life of the geomembrane will depend on design, construction and the operating conditions of the MSW landfill.

Dr. Kerry Rowe is Professor of Civil Engineering and Vice Principal (Research) at Queen's University, Kingston, Canada. Prior to joining Queen's in 2000, Professor Rowe was educated at the University of Sydney BSc('73), BE(Hons I, '75), PhD('79), D.Eng ('93), worked for the Australian Government Department of Construction in Sydney, and spent 21 years at the University of Western Ontario. Author of more than 240 refereed journal papers; 3 books; 14 book chapters; more than 240 full conference papers, he has extensive research and consulting experience in the geotechnical and geoenvironmental engineering field. His research is reflected in landfill regulations in Canada and around the world. He has been recognized by numerous awards including being a former NSERC Steacie Fellow, a Killam Prize winner (Canada's highest award in Engineering), and was selected to present the 45th Rankine Lecture in March 2005. He is a fellow of both the Royal Society of Canada and the Canadian Academy of Engineering as well as Professional Societies in Australia, Canada and USA. He is past president of the International Geosynthetics Society, the Canadian Geotechnical Society and has just completed a 2 year term as President of the Engineering Institute of Canada.

Venue:

*Monash Conference Centre,
Level 7,
30 Collins Street,
Melbourne 3000*



Time:

*Tea/coffee: 6.00-6.30 pm
Lecture: 6.30-7.30 pm*

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***To register (registration is free) please contact:
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