

CPD-accredited lecture:

Erosion Control using Geosynthetics

Uncontrolled erosion results in a host of environmental problems. Many of these problems can be prevented by employing relatively simple erosion control techniques. Among these solutions may be found those that are offered by the use of geosynthetic products. Depending on project requirements, these products can be biodegradable, photodegradable, or non-degradable.

This illustrated introduction is intended as a follow-on lecture to the initial “**Introduction to Geosynthetics**” lecture (which we recommend should precede this lecture) and concentrates on basic design concepts around how geosynthetics behave in erosion control applications. [This SAICE & SACAP CPD-accredited lecture is presented free of charge.](#)

CPD Credits 0.2 (two hours) apply for ECSA & SACAP registered persons.

An attendance certificate will be issued to each delegate.

This can be used to motivate corporate Skills Development Levy (SDL) Refund Claims.

PROGRAMME

± 2 hours with one 10-minute break

1. **The South African legislation in respect of erosion control**
 2. **Erosion Control with Silt Fences** – Design Considerations.
 3. **Erosion Control with Biodegradable Geosynthetics** – Soil Blankets.
 4. **Erosion Control with Geocells** – Slope & Channel Lining – Labour-intensive projects.
 5. **Gabion Baskets & Mattresses** – Design Considerations. The need for filters and what happens when they are not used.
 6. **Earth & Rockfill dams** – The extensive use of geotextile filters to control erosion under rip-rap, around clay cores, chimney drains, and toe drains in South African dams
 7. **Marine & Riverine Erosion Control** – The use of Geocontainers & Geotubes.
 8. **Discussion**
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The lecture(s) can be presented at your premises or Kaytech's in Johannesburg (Isandovale), Cape Town (Stikland), East London, Port Elizabeth, & Durban (Pinetown).

Course Presenter

Peter Davies

MIGS · MGIGSA · SFIWMSA · MSANCOLD · MIAIAAsa

Peter works for the Kaymac Group (founded 1945) and is based at Kaytech's head office in Pinetown, Kwazulu-Natal, in South Africa. Here, he serves as Senior Consultant: Geosynthetic Applications. He has been involved in geotechnical engineering and geosynthetics for over 50 years.



- In 2014 he was appointed honorary *Technical Advisor* to the South African Institute of Waste Management (IWMSA).
- He is a Senior Fellow of, and has served two-year terms each, as National Secretary, Vice President and President of the South African Institute of Waste Management (IWMSA). Here, he has represented the Institute on a number of waste-related initiatives, including the steering committee for all editions of the *Minimum Requirements for Waste Management Facilities* document. He has served on the Project Steering Committee and the Specialist Working Group engaged in landfill design requirements, in particular in updating the section on Geosynthetic Clay Liners. He is a committee member of the IWMSA KZ-N Branch Landfill Interest Group (LIG) and has served as its Vice Chairman and Chairman.
- He is an honorary life member, and has been the Vice-President and newsletter editor of GIGSA, the Geosynthetics Interest Group of South Africa, which is affiliated to the South African Institution of Civil Engineers and is the local chapter of the International Geosynthetics Society (IGS). He was the Technical Chair of the IGS/GIGSA GeoAfrica 2009 conference held in Cape Town over 2 – 5 September 2009. This was the first IGS Regional conference to be held in Africa.

Peter has authored, and co-authored, numerous peer-reviewed technical papers on a wide range of geosynthetics topics, presented at a number of South African and international conferences.



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