CPD-accredited lecture:

Geosynthetics in Pipelines and Water Containment Applications in South Africa

The use of geosynthetics is a globally accepted practise. However, generally only limited quantities are used in pipelines and water containment applications, resulting in limited information on applications. This talk presents quality information, based on both theory and practical experience on where and how geosynthetics can provide an effective aid in pipeline and reservoir construction. This illustrated lecture is intended as a follow-on lecture to the initial "***Introduction to Geosynthetics***" lecture and concentrates on the use of a wide range of geosynthetics used for a number of different applications.

This **SAICE** CPD-accredited lecture is presented free of charge to professionals in the engineering fields.

CPD Credits 0.1 (one hour) apply for ECSA registered persons.

An attendance certificate will be issued to each delegate.

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

PROGRAMME

± 1 hour (including discussion)

1. **Geosynthetics in pipeline construction -** A variety of applications and geotextile bags for pipes.
2. **Subsoil drainage under reservoirs -** Geotextile and stone drains and economical geocomposite alternatives.
3. **Geosynthetic dam lining systems –** Impregnated surface liners and buried geosynthetic clay liners and the advantages of each.
4. **Spillways, down chutes and liner protection –** Cast in situ geocells provide a very economic, durable, flexible solution for spillway construction. Geotextiles also offer protection to plastic dam liners from a rough subgrade soil.
5. **Erosion control –** The various geosynthetic methods including biodegradable mats, silt fences, etc. used to prevent soil erosion over newly installed steep pipelines.
6. **Soil reinforcement -** An economic method of earth retention for pipeline construction in undulating terrain.
7. **Septic tank and stormwater attenuation systems –** Using HDPE tunel formers instead of stone leachfields and soakpits.
8. **Sludge dewatering systems**
9. **Discussion**

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

Julian Maastrecht

BTech degree (Civ Eng): Cape Technicon

Julian works for the Kaymac Group (founded 1945) and is based at Kaytech's East London branch in South Africa. Here, he serves as Branch Manager. In 2016, he will have been involved in geotechnical engineering and geosynthetics for 18 years. He also has 5 years contracting experience in building and civil construction.

His working experience in the civil engineering consulting field includes three years with Van Niekerk Klein and Edwards and three years with BS Bergman Consulting Engineers in civil services design. He joined Kaytech in August 1998 where he worked in the technical marketing department. In 2007, he opened a regional branch in the Eastern Cape and assists nationally on a technical level.

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