

# Landfills

Performance of the lining systems, actual regulations and guides, monitoring, common practice and case studies

**Bucharest, 25-th of September 2023**

Venue:

Hotel Caro Conference Centre - Eminescu Hall  
Str. Barbu Văcărescu 164A, București 020285, Romania

In partnership with



**Klarwin®**

## Agenda

08:00 - 08:30

Registration of guests

08:30 - 08:45

Welcome and presentation of the key speakers and topics

**08:45 - 09:30**

**George Koerner - Ph.D., P.E. and CQA, Director of Geosynthetic Institute**



**Essential characteristics of geosynthetic barriers (geomembranes and GCLs) used in landfill applications.**

Introduction and explanation of GRI GM 13 - a carefully crafted independent geomembrane specification. Latest updates on GM 13.

Essential characteristics of GCLs used in landfill applications. Introduction and explanation of GRI GCL3.

09:30 - 09:45

Questions and answers session

**09:45 - 10:15**

**Loretta Batali - Professor - Technical University of Civil Engineering Bucharest**



**Slope stability aspects for landfills - case studies and numerical modelling.**

Importance of correct slope stability assessments and consequences of incorrect approaches or incomplete evaluations of all the factors involved.

10:15 - 10:30

Questions and answers session

10:30 - 10:50

Coffee break



10:50 - 11:35

**Kent von Maubeuge - Geosynthetic Barrier expert - Convenor TC 189/Working Group 6****Risks related to improper GCL specifications and wrong design / installation of GCLs in landfills.**

Field performance, index flux vs mass/unit area; desiccation; peel strength and behaviour on the slopes.  
 German Landfill Regulation (DepV) for GCLs, including LAGA requirements.  
 Update on the actual status of GCLs in the standardisation committees.

11:35 - 11:50

Questions and answers session

11:50 - 12:50

**Darren Bland - Managing Director CQA International****State of the art landfill building and operation - based on experience from United Kingdom.**

Environmental Agency regulations on the geosynthetics used in landfills - LFE3; LFE5; LFE7.  
 Qualification of protection geotextiles by use of cylinder tests - LFE2.  
 Monitoring of landfill leachate, groundwater and surface water - LFTGN 02.

12:50 - 13:15

Questions and answers session

13:15 - 14:15

Lunch break

14:15 - 15:00

**Henning Ehrenberg - Quality Director - Naue GmbH & Co. KG****Quality of geosynthetics; CE marking; specific quality requirements for landfill applications and performance confirmation by testing.**

CE marking and geosynthetics - how does the CE marking work and why the CE marking shall not be seen as a confirmation of quality. Examples of proper / improper CE marking documents.  
 German Landfill Regulation (DepV) for geosynthetics, BAM requirements for the use in landfill applications, including on-site issues.  
 Introduction of the cylinder test for geomembrane puncture protection - efficiency of protection geotextiles and test results.

15:00 - 15:15

Questions and answers session

15:15 - 15:45

**Lucian Pavel - Environmental Department Manager - Klarwin****Geoklast - a smart instrument for sustainable and safe landfill operation.**

A non-invasive method for the verification of the efficiency of landfill capping systems and the identification of eventual infiltrations or presence of fluids or discontinuities in the waste body.

15:45 - 16:00

Questions and answers session

16:00 - 16:45

**George Koerner****Failures in landfills - consequences and lessons learned.**

16:45 - 17:00

Questions and answers

17:00 - 17:15

Conclusions and closing the seminar