

Specialized Training Session CTT / SAGEOS

P230-102 – Polymers Accelerated UV aging



Who is this course for?

This course is aimed at manufacturers, designers, experts, chemists and research engineers who wish to understand the mechanisms of material aging under exposed conditions. Practical cases, drawn from building and geotechnical applications, will be used to support the concepts.

■ Prerequisite

General knowledge of polymers and materials, their characterization and use.

Content

- Identify outdoor exposure environment parameters
- Document exposure parameters using climatic data
- Characterize materials and their degradation mechanisms
- Understand the chemistry of polymers and UV additives
- Correlate laboratory exposure in terms of actual aging period.
- Practical case #1: exposure of HDPE geomembranes
- Practical case #2: exposure of PP and PET geotextiles.
- Practical case #3: resistance of bio-based colorants..

Learning Objectives

- Identify the key elements of a study of the service life of a synthetic product in outdoor exposure.
- Identify laboratory and field test methods for a durability projection.
- Establish a correlation between durability and a product's life-cycle analysis.

Your Trainer



David Beaumier, Eng., M.A.Sc., M.B.A.

Professional engineer with a master's degrees in chemical engineering and management (M.B.A.), David has developed expertise in the field of polymer durability and geosynthetics performance. He has led numerous research and evaluation projects related to the durability of materials and the projection of their performance.

October 22, 2024 (in French) or October 23, 2024 (in English)
275\$/individual + taxes (247,50\$/individual for CTT members)

Duration : 3h including a 30 minutes visite of the labs, Starting : 10h30, Ending : 14h30,
(meals at your own expense, in the Cégep cafeteria). In-person only, at the Groupe CTT, 3000 avenue Boullé, Saint-Hyacinthe