

Improving the Performance of Canals with Geosynthetics

FREE VIRTUAL EVENT | 15 - 17 NOVEMBER 2021

THEME

GEOSYNTHETICS TO REDUCE SEEPAGE LOSSES AND IMPROVE
STRUCTURAL INTEGRITY OF CANALS

SCOPE

Many parts of the world experience water scarcity caused by climate change. On the other hand, a constantly increasing population stresses the global food demand. One of the paths forward is to put in place better water management strategies to reach better yields and ensure food security.

This series of webinars is intended to present the use of geosynthetics to the engineering community specializing in canal design and restoration. Renowned experts were selected by the Technical Committee on Hydraulics of the International Geosynthetics Society to present this series of webinars on the use of geosynthetics in canals.

Geosynthetics have been used successfully in construction for decades. They offer cost-effective and durable solutions for numerous applications in geotechnical engineering. They are used in large canals as well as in medium to small canals: to control seepage, avoid erosion, stabilize banks, or ensure structural integrity. They have been used successfully in thousands of kilometers of canals in all parts of the world: the Americas, Europe, Asia, the Middle East, Africa, and Australia/New Zealand.

About the International Geosynthetics Society (IGS): The IGS is a learned society dedicated to the scientific and engineering development of geotextiles, geomembranes, related products, and associated technologies. The purpose of the IGS is to provide the understanding of and promote the appropriate use of geosynthetics throughout the world.

LOCATION

Webinars will be held online
through Zoom

⇒ REGISTER ONLINE ⇐

[GeosyntheticsSociety.org](https://www.geosyntheticsociety.org)

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Contact IGS Secretariat Manager Elise Oatman
with questions igssec@geosyntheticsociety.org



Improving the Performance of Canals with Geosynthetics

15 – 17 November 2021 | Virtual Event

DAY 1:

15 November 2021

16:00 – 18:30 (Egypt time, UTC +2)

Retrofitting Irrigation Canals With Geosynthetics: An Overview

INTRODUCTION

- Prof. Chungsik Yoo, President of IGS
- Prof. Ragab Ragab, President of ICID

KEYNOTE SPEAKERS

Overview of the national project for the rehabilitation and lining of canals by His Excellency, Dr. Mohamed ABDEL ATY

Geosynthetics in canals: applications and performance
By Jean-Pierre GIROUD

Geosynthetics: a sustainable solution for water management in canals
By Nathalie TOUZE

Service life of geosynthetics
By Eric BLOND

QUESTION & ANSWER

KEYNOTE SPEAKERS



His Excellency Dr. Mohamed ABDEL ATY
Minister of Water Resources and Irrigation of Egypt



Dr Jean-Pierre GIROUD
*Consultant
IGS Past President*



Dr Nathalie TOUZE
*President, INRAE (France)
IGS Vice-President*



Eng. Eric BLOND
*Eric Blond Consultant
Chairman, IGS Technical Committee on Hydraulics*

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DAY 2:

16 November 2021

16:00 – 18:00 (Egypt time, UTC +2)

Retrofitting Irrigation Canals With Geosynthetics: Seepage Control

INTRODUCTION (16:00)

KEYNOTE SPEAKERS (16:05)

Canal Lining Using Geomembranes
By Hervé PLUSQUELLEC

Practical Considerations of Retrofitting Canals
with Geomembranes
By Chris DAVEY

Bituminous Geomembranes for Waterproofing
Large Canals
By Pau LLINAS and Bertrand BREUL

Stopping Leakage in Canals in the Dry and in
Flowing Water Conditions
By Alberto SCUERO

Long-term Integrity of Canals Lined with
Geosynthetics
By Catrin TARNOWSKI and Adam MASKAL

QUESTION & ANSWER (17:45)

KEYNOTE SPEAKERS



Hervé PLUSQUELLEC
*Former World Bank Irrigation
Adviser*



Chris DAVEY
*Independent Consultant on
Irrigation and Drainage*



Pau LLINAS
*Export Sales Engineer,
Coletanche*



Bertrand BREUL
*Civil Engineering Manager,
Coletanche*



Alberto SCUERO
*Executive Managing
Director, Carpi Tech*



Catrin TARNOWSKI
Product Manager, Solmax



Adam MASKAL
*Global Product Manager –
Geomembranes, Solmax*

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DAY 3:

17 November 2021

16:00 – 18:00 (Egypt time, UTC +2)

Retrofitting Irrigation Canals With Geosynthetics: Bank Stabilization and Erosion Control

INTRODUCTION (16:00)

KEYNOTE SPEAKERS (16:05)

Overview of Geosynthetics Products for Erosion Control in Irrigation Channels

By Pietro Rimoldi

Concrete Mattresses for Lining and Sealing of Canals

By Simon Ebbert

An Introduction to Geosynthetic Cementitious Composite Mats - an innovative approach to lining canals

By Will Crawford

The Use Of Gabions and Mattresses to Provide Stabilization and to Prevent Seepage Losses in Water Courses

By Paulo Di Pietro

Canal Bank Protection with NPA-Geocells

By Zeev Strahl and Eyal Blatman

Channel Bank Protection with Making Use of Sand Filled Fabricated Geosystems

By Edwin Zengerink

QUESTION & ANSWER (17:45)

KEYNOTE SPEAKERS



Pietro RIMOLDI

Civil Engineering Consultant and IGS Council Member



Simon EBBERT

Hydraulic Civil Engineer, Huesker



Will CRAWFORD

Owner, Concrete Canvas



Paolo DI PIETRO

Senior Specialist Double Twist Products, Maccaferri



Zeev STRAHL

Territory Business Director, PRS GeoTechnologies



Eyal BLATMAN

Product & Innovation Director, PRS GeoTechnologies



Edwin ZENGERINK

Technical Manager, TenCate