

# 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 ⇐

## WITH THE SUPPORT OF



ICID•CIID

Contact IGS Secretariat Manager Elise Oatman  
with questions [igssec@geosyntheticsociety.org](mailto:igssec@geosyntheticsociety.org)



# Improving the Performance of Canals with Geosynthetics

15 – 17 November 2021 | Virtual Event

## DAY 1:

15 November 2021

16:00 – 18:00 (Egypt time, UTC +2)

### Retrofitting Irrigation Canals With Geosynthetics: An Overview

#### INTRODUCTION (16:00)

Short allocutions by:

- Prof. Chungsik Yoo, President of IGS
- Prof. Ragab Ragab, President of ICID
- Representative from the Ministry of Water Resources and Irrigation of Egypt (to be confirmed)

#### KEYNOTE SPEAKERS (16:15)

Geosynthetics in canals: applications and performance

**By J.P. Giroud**

Geosynthetics: a sustainable solution for water management in canals

**By Nathalie Touze**

Service life of geosynthetics

**By Eric Blond**

#### QUESTION & ANSWER (17:45)

### KEYNOTE SPEAKERS



**J.P. GIROUD**  
Consultant  
IGS Past President



**NATHALIE TOUZE**  
President, INRAE (France)  
Current IGS Vice-President



**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 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*