GSI W-8 Webinar Entitled:

"Geosynthetic Applications in the Private Sector"

Purpose and Background

It appears that in the past the geosynthetic industry has focused on the major application areas within transportation, environmental and hydraulic engineering. Yet, many smaller application areas are also important and noteworthy as well. Many are in the private sector where regulations and permits do not apply, hence optimizing benefit/cost ratios are paramount. Fourteen such applications are presented in this webinar and are counterpointed against possible geosynthetics solutions.

Interestingly many applications require new design methods and some of them are detailed in this webinar. They are turf reinforcement, erosion control design, support over sinkholes, geocell bearing capacity and lifetime prediction. Concluding remarks will be offered suggesting the ongoing viability of geosynthetics and the private sector application areas that they service.

Learning Objectives

Webinar participants will become familiar to fourteen atypical applications for geosynthetics most of which are in the private sector. In no particular order they range from tank farms to sport fields. Recognizing that geosynthetics play a traditional role, like road reinforcement and pond liners, five select atypical geosynthetic solutions are presented. They are turf reinforcement, erosion control design, support over sinkholes, geocell bearing capacity and lifetime prediction. The webinar opens up new horizons for geosynthetic applications.

Webinar Benefits

- Learn of fourteen atypical geosynthetic applications
- Learn how different geosynthetics fit into their primary functions
- Learn details of five select geosynthetic solutions
- Be inspired by the range of geosynthetic applications and solutions

Intended Audiences

Manufacturers and representatives of geosynthetic materials. Private owners of property, development organizations, industrial parks, sport facilities, etc. General civil engineers; testing laboratories servicing these organizations; contractors and installers; academic and research groups; and others desiring technically related information on this important aspect of our constructed environment.

Specific Topics Covered

1. Rational and Webinar Structure
2. Overview of Applications
3. Geosynthetics, Functions, Design Philosophy
4. Select Geosynthetic Solutions
    - 4.1 Turf Reinforcement
    - 4.2 Erosion Control Designs
    - 4.3 Support Over Sinkholes
    - 4.4 Geocell Bearing Capacity
    - 4.5 Durability (aka Lifetime)
5. Concluding Remarks

Webinar Instructor

Dr. Robert M. Koerner's (Professor Emeritus of Civil Engineering at Drexel University and Director Emeritus of the Geosynthetic Institute) interest in geosynthetics spans over thirty years of teaching, research, writing and advising. He holds his Ph.D. in Geotechnical Engineering from Duke University. He is a registered Professional Engineer in Pennsylvania, a Distinguished Member of ASCE, a Diplomate of the GeoInstitute and a member of the National Academy of Engineering. Bob has authored and co-authored about 650 papers on geosynthetics and geotechnical topics in journals and at national and international conferences. His most widely used publication is the sixth edition of the textbook entitled *"Designing with Geosynthetics".* He is the founding director of the Geosynthetic Institute which is a nonprofit research and development organization dedicated to the proper use of geosynthetics in its myriad applications. The institute also provides laboratory accreditation and inspection certification programs.