

# ***Brampton - Workshop on Structural Applications***

***April 9, 2019***

**Location: Brampton**

**Featured Speaker: Dr. Barry R. Christopher, P.E.**

***Reinforced Slope & Subgrade Designs***

## **Structural Engineering**

Designing and constructing a reinforced slope or a reinforced soft soil subgrade can be a challenging task to implement. This workshop sponsored by Terrafix Geosynthetics will benefit engineering consultants, designers, and owners to review current reinforced technology and to develop solutions to design and construction challenges using geogrids. The workshop will deal with the availability and use of strong polymer reinforcement materials which are resistant to corrosion and which also provide attractive possibilities for the use of poor and aggressive soils to build steep embankments and retaining structures. Steep slopes and embankments create numerous challenges both during construction and long term. Although they are necessary for efficiency of land use, you may find yourself dealing with problems due to one or more of the following: Erosion due to overland flow, lack of healthy vegetation, and poor drainage. This workshop will offer solutions using reinforcements via uniaxial and biaxial geogrids, as well as Terraweb cellular confinement for fast & easy installation, stabilization without excavation, and simple design load calculations. The workshop will also review the use of geogrids for soil reinforcement designs for use in municipal roads, highways, railway ballast, site access roads, haul roads, parking lots, industrial shipping yards, and foundation footings.

**Featured Speaker: Barry Christopher, Ph.D., P.E., Geotechnical Engineering Consultant, Christopher Consulting**

Dr. Barry R. Christopher, P.E. is an independent geotechnical engineering consultant specializing in reinforced soil and other ground improvement technologies, geosynthetic application and design, and geotechnical/geosynthetic testing and instrumentation with 40 years of geotechnical engineering experience. With regard to geosynthetics, he has authored numerous technical papers, four design manuals on geosynthetics and several others with significant geosynthetic content for the US Federal Highway Administration (FHWA), a textbook on Geosynthetic Engineering, a book chapter on geosynthetics in paved roads, and three National Cooperative Highway Research Program syntheses including Geosynthetic Reinforcements in Roadway Sections. He is a National Highway Institute certified instructor and teaches training courses in “**Mechanically Stabilized Earth and Reinforced Soil Slopes**”, “**Geosynthetic Engineering**”, “**Geotechnical Aspects of Pavements**”, “**Slope Maintenance**”, as well as other geotechnical courses. He was past president of the North American Geosynthetic Society, past chair of ASTM Committee D35 on Geosynthetics and the Transportation Research Board AFS70 Geosynthetics committee, and council member of the International Geosynthetics Society.

Date: April 9, 2019.  
Time: Registration & Continental Breakfast 7:30am-8:00am  
Workshop: 8:00am to 1230pm (lunch to follow).  
Cost: \$40.00

Where: Pearson Convention Centre  
2638 Steeles Ave. E.  
Brampton, ON L6T 4L7  
Hwy 407 & Airport Rd. Exit

RSVP: by March 29, 2019.  
email or fax: bbergerson@terrafixgeo.com / 416.674.1159  
Phone: 416.674.0363 / 416.570.8043 cell  
Mail: Terrafix 455 Horner Ave., Etobicoke, ON

**LIMITED SPACE AVAILABLE**  
Classroom style seating - Limited seating.  
Registration closed once full capacity reached.

Registration Form for Designing & Constructing Lining Systems – April 9, 2019.  
Registration Fee: \$40.00 per seat - Registration deadline is prior to March 29<sup>th</sup> and/or sell out.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization or Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Visa or MC accepted.

Please return registration form with fee to: Terrafix 455 Horner Ave., Etobicoke, ON  
Please make cheque attention to the sponsor of the workshop: Terrafix. Visa or Master Card also accepted.