



THE UNIVERSITY OF BRITISH COLUMBIA

Department of Civil Engineering

SIERA: Sustainable Infrastructure Research Group



## SIERA Group 2020 Seminar Series – Seminar No. 19

Wednesday, August 12, 2020 @ 5:30pm PST

IC-IMPACTS Invited Speaker

### Improving Quality of Storm Water/Car Wash Effluent Using Phytoremediation & Hybrid Absorbable Landscapes



**Rishi Gupta**, Ph.D., P.Eng., FEC, MCSCE

Associate Professor

Department of Civil Engineering

University of Victoria, British Columbia, Canada

Dr. Rishi Gupta is an Associate Professor in the Department of Civil Engineering at the University of Victoria. He received both a masters and a PhD in Civil Engineering from the University of British Columbia. His current research is focused on studying the early-age behavior of cement-based composites containing SCMs and fibers. His areas of interest include development of sustainable construction technologies, masonry structures, hybrid absorbable landscapes, structural health monitoring, and non-destructive testing. He has more than 15 years of combined academic and industry experience. His industry experience includes working as the Director of Research of Octaform Systems Inc in Vancouver. Dr. Gupta is a Fellow of Engineers

Canada and the past chair of the EGBC's Burnaby/New West branch. He is the past Chair of the international affairs committee of the Canadian Society of Civil Engineering (CSCE). He is a long standing member of the American Concrete Institute and is also a voting member of several subcommittees of ASTM C 09.

**Abstract:** This presentation will mainly focus on a new concept developed at the University of Victoria called Hybrid Absorbable Landscapes (HAL). HAL is a concept that can be used to design Low Impact Developments (LID). This presentation by Dr. Gupta will begin by providing a case study where pervious concrete was used as a paving material and also for storm water management. The presentation will also present the findings of the collaborative work (funded by IC IMPACTS) done between the University of Victoria (Canada) and Lovely Professional University (India). The presentation will highlight use of Canadian technologies including use of Silva Cells and wireless monitoring systems. The presentation will also introduce the concept of phytoremediation for improving quality of storm water or effluent from car wash sites.

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