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Pervious Concrete – Specification, application and field experience

Previous concrete elements are meant to control storm water, re-charge ground water, flood control at down-stream and optimize sustainable land management. Pervious concrete is a "no-fines" concrete which allows rain water to flow through its voided structure with minimum absorption.

The presentation covers the background of the previous concrete including the associated technical specifications, applications and its benefits. The presentation also briefly encompasses the design methodology, mix design concepts and the method of placement at site. The issues and problems encountered at site by Holcim Singapore Ltd are also outlined.

DR ARVIND SURYAVANSHI, DIRECTOR CENTRE OF EXCELLENCE (CoE) HOLCIM SINGAPORE LTD



Dr Arvind after completing his Bachelor's Degree and Master's Degree (IIT, Mumbai) did his Doctorate Degree from The University of Manchester, England, as a Fellow of the Commonwealth Commission.

Dr Arvind's career in Singapore began from the Civil Engineering Department, National University of Singapore (NUS) where he worked on a project related to High Performance Concrete (HPC). He then moved to Poh Cheong Concrete Pte Ltd overseeing dry-mix product formulation, QA / QC of structural grade concrete before moving to Nanyang Technological University (NTU) to teach Civil Engineering & Common Engineering courses for undergraduates. Prior to joining Holcim Singapore Ltd as Director of Centre of Excellence he was with SETSCO Services Pte Ltd, the largest accredited testing laboratory in the private sector in Singapore, where he was actively involved in consultancy and professional developmental activities for nine years.

Dr Arvind has published 19 technical papers in peer reviewed international journals and he has authored a book. He is the member of American Concrete Institute (ACI), USA, and also Corporate Member of the Institute of Concrete Technology (MICT), UK. Currently, Dr Arvind sits on the Board of ACI - Singapore Chapter (ACI-SC), as a Director, and heads the ACI-SC's Education Committee.

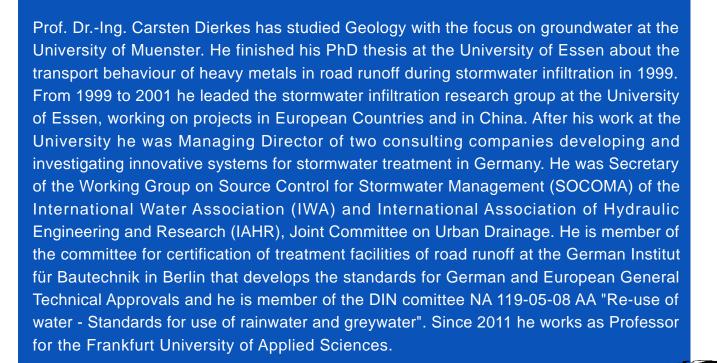
The Institution of Engineers, Singapore 70 Bukit Tinggi Road Singapore 289 758 Tel: 6469 5000 Web: www.ies.org.sg



Porous Paver Systems

Porous paver systems can be an effective solution for stormwater treatment, detention, and infiltration. They are well-suited in our tight urban spaces because porous pavers are worked into existing paved surfaces and do not take up additional areas. In this session, Prof Dierkes will introduce various technical aspects of porous pavers and control standards in Germany. He will discuss the maintenance requirements of porous pavers, some implemented projects, and the lifecycle costs of porous pavers in comparison to other infiltration devices. He will also share the European experience in managing pollution in runoff using strategies such as regulatory control and stormwater tax.

PROF. DR.-ING. CARSTEN DIERKES



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