



FOUR DAY COURSE ON Stormwater Hydraulics

STIAS Conference Centre, Stellenbosch University, South Africa

28 – 31 August 2017

ECSA Continuing Professional Development (CPD) accredited course*

PRELIMINARY PROGRAMME

	Start Time	Duration	Description	Presenter(s)	Organisation
28 August 2017	8:00 to 9:00	(min)	Registration		
	9:00 to 10:00	60	Stormwater & River management in Australia	Tony McAlister	Water Technology
	10:00 to 10:30		Tea		
	10:30 to 11:15	45	Catchment, Stormwater & River management in Cape Town	Richard Nell	City Cape Town
	11:15 to 12:00	45	Urban stormwater masterplanning, floodlines and risk	Isak Malherbe	AECOM
	12:00 to 12:45	45	Urban flood attenuation and routing	Timothy Hotchkiss	AECOM
	12:45 to 13:00	15	Design Guidelines for Multi-Stage Outlet Structures: Physical Model Investigation	Marisa Myburgh	Univ Stellenbosch
	13:00 to 14:00		Lunch		
	14:00 to 14:45	45	Culvert Hydraulics, energy dissipation and erosion protection	Francis Stoffberg	iX engineers
	14:45 to 15:15	30	Case Study: St Helena Bay Airport Stormwater Study	Jannie Van der Mescht	iX engineers
	15:15 to 16:30		Cocktail		
29 August 2017	8:30 to 9:00		Late Registration		
	9:00 to 9:45	45	Environmental considerations	Liz Day	Freshwater Consulting
	9:45 to 10:30	45	PCSWMM Information session and Case Study	Robert Fortuin	CHI
	10:30 to 11:00		Tea		
	11:00 to 11:45	45	Case Study: Braamfontein Spruit - City of Johannesburg Municipality	Edward Dupper, Murry Sim	SRK
	11:45 to 12:30	45	Stormwater canal design	Dr Aldu le Grange	Bigen Africa
	12:30 to 13:00	30	Case Study: Sitari Housing Development, Somerset West, Stormwater development	John Coetzee	Sitarie Estate: UVEST Property Group
	13:00 to 14:00		Lunch		
14:00 to 16:30	150	PCSWMM Tutorial	Robert Fortuin	CHI	
30 August 2017	8:30 to 9:00		Late Registration		
	9:00 to 9:45	45	Floodlines/ Set back lines in estuaries	Lara van Niekerk	CSIR
	9:45 to 10:30	45	Stormwater outfall structures in the coastal zone	Dr André Theron	Univ Stellenbosch
	10:30 to 11:00		Tea		
	11:00 to 11:45	45	Legal aspects of floods for insurance	To be confirmed by Santam	Santam
	11:45 to 12:30	45	Case Study: N2 Bridge at Mfolozi River	Andrew Pillay / Tasneem Vawda/ Prof Basson	SANRAL/ Ingerop/ US
	12:30 to 13:15	45	Case Study: Mossel Bay Stormwater Pipe	Danie Wessels / Pieter Myburgh/ Prof Basson	Mossel Bay Municipality/ V3 / US
	13:15 to 14:00		Lunch		
	14:00 to 16:30	150	Site Visit: Sitari Housing Development, Somerset West, Stormwater development	John Coetzee	Sitarie Estate: UVEST Property Group
31 August 2017	8:30 to 9:00		Late Registration		
	9:00 to 9:45	45	Effect of climate change on floods - Hydrology Aspects	Dr James Cullis	Aurecon
	9:45 to 10:30	45	Trenchless Technologies	Alaster Goyns	SASTT
	10:30 to 11:00		Tea		
	11:00 to 11:45	45	River bank protection by Groynes	Hans King	Dep Agriculture
	11:45 to 12:15	30	Case Study: Rehabilitation of river banks of Eerste River, Stellenbosch	Leon Pienaar	Stellenbosch Municipality / BVI
	12:15 to 13:00	45	Catchment coordinated interventions related to stormwater management	Geoff Tooley	eThekweni Municipality
	13:00 to 14:00		Lunch		
	14:00 to 14:45	45	Sustainable Urban Drainage Systems (SUDS)	Benjamin Biggs	JG Afrika
	14:45 to 15:30	45	Case Study: Implementation of SUDs principles in urban areas - Durban	Geoff Tooley	eThekweni Municipality
	15:30 to 16:00		Tea		

Note: *This course is a Category 1 activity and offers 4 CPD credits. For more details see www.ecsa.co.za

SCOPE

This 4 day course on **Stormwater Hydraulics** has been structured to give state-of-the-art theory and practise on stormwater modelling, river hydraulics, and design of stormwater hydraulic structures such as canals, culverts, causeways, bridges and river bank protection, etc. Presenters are drawn from government, university, consulting engineering companies and industry. The course includes a visit to the Sitari Estate, Somerset West, with a field inspection of stormwater systems implemented and a tutorial session on the use of PCSWMM software. The keynote address, Stormwater and River Management in Australia, will be delivered by Tony McAlister who hails from Queensland. This popular course was last presented in 2015.

VENUE

STIAS Conference Centre, 10 Marais Road, Stellenbosch, Western Cape, SOUTH AFRICA:
<http://stias.ac.za/location-and-map/>

REGISTRATION

APPLICATION FOR THIS COURSE IS DONE ELECTRONICALLY. Kindly complete the on-line form:
<http://shortcourses.sun.ac.za/application-form.html?offeringid=c06ead41-0e15-e711-99f0-0050568000ff>

On receipt of the electronic application, an invoice will be sent to participants within five (5) working days. Payment details will be provided on the invoice.

Stellenbosch University registered students: Do not register on-line. Contact René Burger at burgerr@sun.ac.za for registration.

COURSE FEES (exempt from VAT)

	4 Days	3 Days*	2 Days*	1 Day*
Full delegate fee (Includes tea, lunch, notes and presentations)	R9900	R8500	R6800	R5100
MEng or PhD Civil Engineering Stellenbosch University students fee (Includes tea, lunch, and presentations). Students of other South African Universities contact René Burger.	R1200			

*Participants who wish to register for less than four days:- please **confirm your attendance dates** per e-mail to René Burger at burgerr@sun.ac.za **before** completion of the on-line application.

CLOSING DATE FOR REGISTRATION AND PAYMENT: 14 August 2017

The fee for late registration after 14 August 2017 will be 20 % more than the above fees.

Enquiries can be directed to

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