



Institute for Water and Environmental Engineering at Stellenbosch University (IWEEUSU)

3-Day CPD Course: Sewer Systems 2017

Monday-Wednesday, 24-26 July
Stias Conference Centre, 10 Marais St, Stellenbosch



Overview This three day block course (3 CPD points) is part of the post graduate programme in Water Engineering at Stellenbosch University. The objective of this course is to provide the latest information regarding sewer systems, planning, design, operation and maintenance. The focus of the course is on urban sewage drainage and related waterborne sewer systems. The latest case-studies as well as technology and developments regarding pipes, modelling, greywater reuse, hydraulics, pumps and practical challenges are presented.



Coordinator and Speakers The course is coordinated by Prof. Heinz Jacobs and Mr. Carlo Loubser, who will present on key topics. Specialist speakers present in their relevant fields of expertise as per the attached programme.



Scope The course brings the latest advances in the field to participants and unpacks knowledge that is often hidden to those outside academic circles.

Language: The course is presented in English.



ELECTRONIC REGISTRATION: Kindly complete the on-line form: <http://shortcourses.sun.ac.za/application-form.html?offeringid=7E0D7102-0274-E611-ADB0-0050568000FF&webTokenId=7e393c46-b61e-e711-80d4-0050568033a6>

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. Student fee 3 days R1000. Contact: M. Meyer merentia@sun.ac.za.



COURSE FEES: Indicate days of attendance	3 Days	2 Days*	1 Day*
Full CPD delegate fee (Includes tea, lunch, digital notes / presentation & CPD certificate)*	R7900	R6900	R4500

**Participants who wish to register for less than 3 days and all students: Confirm your attendance dates per e-mail to Merentia Meyer at merentia@sun.ac.za before completion of the on-line application.*

Sewer Systems Planning and Design

3 Day (3CPD) Short course: 24-26 July 2017 @ Stias, Stellenbosch

Monday: 24 July			
08h00 - 09h00	Registration & coffee		
	Session A: Overview		
09h00 - 09h15	Welcome & Introduction	SUN	Prof. HE Jacobs
09h15 - 10h00	Sewer systems - Modern day challenges	EOH	Dr. LC Geustyn
10h00 - 10h30	Break - Tea & Coffee		
	Session B: Adapting to change		
10h30 - 11h15	Removal of solids from sewers	SUN	Mr. C Loubser
11h15 - 12h00	Community health - a challenge for engineers	SUN	Dr. J Barnes
12h00 - 12h45	Municipal Wastewater Services Planning (W ₂ RAP, WSDP, etc.)	iX Engineers	Mr. J Human
12h45 - 14h00	BREAK - Lunch		
	Session C: Case Studies		
14h00 - 14h45	The "Black-Mac" sewer - A case study	Aurecon	Mr. J Kriegler
14h45 - 15h30	Experiences visiting China - Ductile iron pipes	AECOM	Mr. T Hotchkiss
15h30 - 16h00	Break - Tea & Coffee		
16h00 - 16h30	Case study - Cape Flats 3 bulk wastewater project	AECOM	Mr. T Hotchkiss
Tuesday: 25 July			
08h00 - 08h30	Registration & coffee		
	Session D: Design considerations (i): Pipes		
08h30 - 09h15	"No Dig" 2017 Conference feedback, Washington USA	Consultant	Mr. A Goyns
09h15 - 10h00	Loads on burried conduits - flexible and rigid pipes	Consultant	Mr. A Goyns
10h00 - 10h30	Break - Tea & Coffee		
	Session E: Design considerations (ii): Pumps and design guidelines		
10h30 - 11h15	Pump theory and design	Hidrostal	Mr. L Worthington-Smith
11h15 - 12h00	Sewer pumps in practice (incl. clogging and maintenance)		
12h00 - 12h45	CSIR's "Red Book" - Updating Chapter 10 (Sanitation)	CSV Water (EOH)	Dr. T Ceronio
12h45 - 14h00	BREAK - Lunch		
	Session F: Practical issues - municipal and measurement		
14h00 - 14h45	Overstrand Municipality's Approach to challenges	Overstrand	Mr. H Blignaut
14h45 - 15h30	MyCity - Measure to manage	Flotron	Mr. K Vosloo
15h30 - 16h00	Break - Tea & Coffee		
16h00 - 16h30	SAPS Roodeplaat Dog Training facility Sewer – Case Study	Aurecon	Mr. JIJ Du Plessis
Wednesday: 26 July			
08h00 - 08h30	Registration & coffee		
	Session G: Trenchless Technology		
08h30 - 09h15	Overview of Trenchless Technologies	Bigen Africa	Mr. H Aartsma
09h15 - 10h00	Sewer pipe material considerations	Bigen Africa	Mr. H Aartsma
10h00 - 10h30	Break - Tea & Coffee		
	Session H: Alternative sewers and greywater reuse		
10h30 - 11h15	Greywater reuse - National guidelines	UCT	Dr. K Carden
11h15 - 12h00	The impact of greywater use on domestic sewer flow	SUN	Mrs. N Nel
12h00 - 12h45	Alternative sewers (incl. vacuum sewers)	UCT	Prof. N Armitage
12h45 - 14h00	BREAK - Lunch		
	Session I: Case Studies		
14h00 - 14h45	Stellenbosch University water master plan	JG Afrika	Mr. B Biggs
14h45 - 15h00	Facilitators: Course closure and conclusion	SUN	Prof. HE Jacobs

CLOSING DATE FOR REGISTRATION AND PAYMENT: 30 June 2017

The fee for late registration after 30 June 2017 will be 20% more than the above fees.

