



Four Day Short Course on
Water Resource Management
4 - 7 September 2017

PROGRAMME				
DATE	FROM	SUBJECT	SPEAKER	INSTITUTE
4 September 2017	08h00	Registration / Welcome	JA du Plessis	US
	08h30	Understanding the New Normal for Water Resource Management and how this impacts on future economic growth and social cohesion.	A Turton	Consultant / UFS
	09h30	Catchment Management Planning and Institutions with a focus on Southern Africa	W Enright	WaterRight cc
	10h30	Tea		
	10h45	Impact of Climate Change on Water Resources	J Cullis	Aurecon
	12h00	Reconciliation Strategies: Focus on water resources	K Riemann	Umvoto
	13h00	Lunch		
	13h30	Managing Cape Town's Water Crisis	B Wood	CoCT
	14h30	Planning for desalination in the Western Cape System	CL Blerch JA du Plessis	Aurecon US
	15h30	Tea		
	16h00	Groundwater yield assessment and management	R Murray	Groundwater Africa
5 September 2017	08h30	Yield, Draft, Risks and Probabilities: Concepts	V Jonker	Aurecon
	09h30	WR90 to WR2012	A Bailey	Consultant
	10h30	Tea		
	11h00	WR2012: Overview	A Bailey	Consultant
	12h00	WRSM/Pitman: Introduction and overview	A Bailey	Consultant
	13h00	Lunch		
	13h30	WRSM/Pitman: Application and demonstration	A Bailey	Consultant
	14h30	WRSM/Pitman: Calibration / Naturalisation / Ungauged catchments	A Bailey	Consultant
	15h00	Tea		
	15h30	Gap filling	G Howard	Consultant
6 September 2017	08h30	WRYM: Introduction	G De Jager	AECOM
	09h30	WRYM: Input parameters	G De Jager	AECOM
	10h30	Tea		
	11h00	WRYM: Operating Rules and Model Configuration	G De Jager	AECOM
	12h00	WRYM: Operating Rules and Model Configuration	G De Jager	AECOM
	13h00	Lunch		
	13h30	WRYM: Historical and stochastic yield analysis	G De Jager	AECOM
	14h30	WRYM: Worked Example	G De Jager	AECOM
	15h30	Tea		
16h00	Comparison of Stochastic Streamflow Generators and the use thereof within the Water Resources Yield Model and Mike Hydro Basin	L Maass and JA du Plessis	DWS / US	
7 Sept 2017	08h30	WRSM/Pitman: Practical hands on tutorial with model	A Bailey	Consultant
	10h30	Tea		
	10h45	WRSM/Pitman: Practical hands on tutorial with model	A Bailey	Consultant
	12h30	WRYM: Practical hands on tutorial with model	G de Jager	AECOM
	13h30	Lunch		
	14h00	WRYM: Practical hands on tutorial with model	G de Jager	AECOM

SCOPE

This four day course on **WATER RESOURCE MANAGEMENT** has been structured in collaboration with the Department of Water Affairs and Sanitation and various consultants. The course deals with the basic principles used, but also provides practical tips for the more experience practitioners, which will be demonstrated during tutorial sessions. The course will expose participants to the need for the development of both surface and groundwater resources and will use the WR2012, WRSM/PITMAN, as well as the Water Resource Yield Model, as basis to demonstrate the available techniques. Attention will also be given to specifically catchment management aspects, such as the CMA structures and the associated strategies. Climate change and desalination as an alternative option will also be discussed. This popular course, which form part of the MSc Eng program at the University of Stellenbosch was last presented in 2015.

VENUE

Welgelee Wine Farm, Sandringham CI / Old Paarl Road, Klapmuts, Paarl, 7625, South Africa,
GPS coordinates: S33 47.757 E018 53.580 (<http://www.welgelee.com/map.html>)

REGISTRATION

APPLICATION FOR THIS COURSE IS DONE ELECTRONICALLY. Kindly complete the on-line form:

<http://shortcourses.sun.ac.za/application-form.html?offeringid=2606896C-344F-E711-904E-0050568000FF&webTokenId=dafb81ef-5f4f-e711-80d5-0050568033a6>

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. Contact Lleana du Preez at ldpreez@sun.ac.za for registration.

COURSE FEES (exempt from VAT)

COURSE FEES				
Indicate days of attendance	4 Days	3 Days*	2 Days*	1 Day*
Presenter	No fee			
Full delegate fee (Includes tea, lunch, digital notes and presentations)	R9 000	R8 000	R7400	R6300
(Civil) MEng or PhD Stellenbosch University students fee (Includes tea, lunch, and presentations). Students of other South African Universities contact Lleana du Preez.	R1000			

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

CLOSING DATE FOR REGISTRATION AND PAYMENT: 22 August 2017

The fee for late registration after 22 August 2017 will be 20% more than the above fees.

Enquiries can be directed to:

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