

Department of Civil Engineering - Institute for Water Engineering

# Short Course on Coastal Engineering

5-day Short Course and Seminar presented by Stellenbosch University

**Monday 27<sup>th</sup> – Friday 31<sup>st</sup> August 2018**

Venue: *NH The Lord Charles Hotel, Somerset West, Cape Town, South Africa*

**ECSA Continuing Professional Development (CPD) accredited course\***



All are welcome to attend! – The course is open to the public and suited to anyone interested in receiving an introduction to some of the technical aspects involved in coastal engineering or a refresher and update in latest findings and techniques. Topics are mostly focused on nearshore/marine hydrodynamics, geophysical coastal processes, coastal structures and coastal planning/management (related to engineering). Interact with experts, practicing professionals, lecturers, peers and students in this exciting field! This popular course was last presented in 2016.

The Short Course is an opportunity to receive lectures regarding aspects of coastal engineering from eminent local and international renowned specialists, including **Prof Torsten Schlurmann**, Ludwig-Franzius-Institute for Hydraulic, Estuarine & Coastal Eng., Leibniz University Hannover, Germany. An excursion and presentations of practical case studies from invited local and international specialists, authorities, consultants and contractors in this field, are also included.

**Thursday 30th August 08:30 for 09:00 to 16:15**  
**PIANC YP & SAICE Marine will host a joint seminar on a range of coastal engineering related topics**



This short course also forms part of the Post Graduate Programme in Port & Coastal Engineering at the University of Stellenbosch which is sponsored by Transnet National Ports Authority (South Africa)

Participants will be provided with course material (presentations). The course will be presented in English.  
\*CPD credits will be awarded for days attended (for more details see [www.ecsa.co.za](http://www.ecsa.co.za)).

**REGISTRATION**

**CLOSING DATE FOR APPLICATIONS: 20<sup>th</sup> AUGUST 2018**  
**(Late applications may be accepted provided space allows)**

**REGISTRATION (Non SU students)**

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

<http://shortcourses.sun.ac.za/application-form.html?offeringid=bd228b5d-806b-e611-adb0-050568000ff>

On receipt of the electronic and application form, an invoice will be sent to participants within three (3) working days. Payment details will be provided on the invoice.

**REGISTRATION– Stellenbosch University (US) registered students:** US registered students do not complete the on-line form. Please contact Tsholofelo: [civilcourses@sun.ac.za](mailto:civilcourses@sun.ac.za) for registration.

**COURSE FEES** (exempt from VAT)

COURSE FEES					
Indicate days of attendance	5 Days	4 Days*	3 Days*	2 Days*	1 Day*
Presenters (free on the day of presentation).					
Full delegate fee: (Includes tea, lunch and course presentations) A reduced fee is applicable to TNPA staff (as per TNPA-US agreement).	R11 900	R10 500	R8 500	R6 500	R4 500
M Eng. or Ph. D (Eng.) Stellenbosch University students fee (Includes tea, lunch and course presentations).	R800				

\*Participants who wish to register for less than five days: please **confirm your attendance dates** per e-mail to Tsholofelo: [civilcourses@sun.ac.za](mailto:civilcourses@sun.ac.za) after completion of the on-line and application form.

Part-days count as full days. The fee for late registration after 20 August 2018 will be 20 % more than the above fees.

Cancellations in writing are accepted and without penalty, up to 17<sup>th</sup> August 2018. Delegates cancelling in writing after 17<sup>th</sup> August 2018 and up to and including 24<sup>th</sup> August 2018 will be liable to pay a 50 % cancellation fee. Cancellations on and after Saturday 25<sup>th</sup> August 2018 will not be refundable.

Enquiries can be directed to:

Ms Tsholofelo Seroalo

Tel: +27 21 808 4131

Email: [civilcourses@sun.ac.za](mailto:civilcourses@sun.ac.za)

or

Dr André Theron

Tel: +27 21 808 4353

Email: [aktheron@sun.ac.za](mailto:aktheron@sun.ac.za)



# REGISTRATION FORM COASTAL ENGINEERING SHORT COURSE

## PERSONAL DETAILS

Title:	Surname:	Full Name:
Student Number:		
Tel:	Fax:	
Cell:	Email:	

## COMPANY DETAILS

Company Name:	Government Department:
Postal Address:	Office Address:

## ATTENDANCE & PAYMENT DETAILS:

Attendance of course including light lunch, tea/coffee and course notes:	R.....	1 Day	2 Days	3 Days	4 Days	5 Days
	<b>In whose name should the invoice be issued:</b>	<b>Company</b>		<b>Attendant</b>		
<b>Please specify any special dietary requirements (All food Halaal):</b>						

Link for online registration: <http://shortcourses.sun.ac.za/application-form.html?offeringid=bd228b5d-806b-e611-adb0-0050568000ff>

**SIGNATURE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**Provisional Programme**

**27 to 31 August 2018**

**VENUE : NH The Lord Charles Hotel (Somerset West)**

DAY	MORNING SESSION 1 [1.5 hours]	Tea/ coffee	MORNING SESSION 2 [1.5 hours]	Lunch	AFTERNOON SESSION 1 [1.5 hours]	Tea/ coffee	AFTERNOON SESSION 2 [0.75 hours]	AFTERNOON SESSION 3 [0.75 hours]				
	08:00 to 09:00	09:00 - 09:45	09:45 - 10:30	10:30 to 11:00	11:00 - 11h45	11:45 - 12:30	12:30 to 13:30	13:30 to 14:15	14:15 to 15:00	15:00 to 15:30	15:30 to 16:15	16:15 to 17h:00
MON 27 AUG	REGISTRATION 08h00 - 09h00	<p><b>OPENING</b> Prof. Jan Wium Head Civil Engineering, - WELCOME &amp; Introduction Prof Koos Schoonees TNPA Postgraduate Chair, Port &amp; Coastal Engineering, Stellenbosch University</p>	<p>The narrative of grey vs. green" - Conventional &amp; novel coastal protection infrastructure - Part 1- Prof. Torsten Schlurmann, Ludwig-Franzius-Institute for Hydraulic, Estuarine &amp; Coastal Eng., Leibniz University Hannover</p>	<p>The narrative of grey vs. green" - Conventional &amp; novel coastal protection infrastructure - Part 2- Prof. Torsten Schlurmann, Ludwig-Franzius-Institute for Hydraulic, Estuarine &amp; Coastal Eng., Leibniz University Hannover</p>	<p>Near/far field coupled water quality modelling for marine outfalls - Frans van Eeden - WSP</p>	<p>Design Conditions for Coastal Protection in Mauritius Including Cyclones and Climate Change - Stephen Luger - PRDW</p>	<p>Effects of relative sea level rise (RSLR) and means of Adaptive Pathway Design - Prof. Torsten Schlurmann, Ludwig-Franzius-Institute for Hydraulic, Estuarine &amp; Coastal Eng., Leibniz University Hannover</p>	<p>Design of a Tidal Pool at Port St Johns - Duncan Stuart - PRDW</p>	<p>Beach meganourishment and protective sand seawalls: modelling developments - Geoff Smith - WSP</p>			
TUE 28 AUG	<p>Modelling of Extreme Water Levels &amp; Determination of Flood Lines In Cape Estuaries. - Prof Gerrit Basson, Jeanine Vonkeman, Eddie Bosman. - Stellenbosch Unversity</p>	<p>Field Work &amp; Physical Modelling in Coastal &amp; Estuarine Engineering - Review &amp; future aspects -Part 1 - Prof. Torsten Schlurmann, Ludwig-Franzius-Institute for Hydraulic, Estuarine &amp; Coastal Eng., Leibniz University Hannover</p>	<p>Pipeline Design in Madagascar: Stability under Cyclone Conditions, Scour and Dispersion Modelling - Calvin Wells - PRDW</p>	<p>Field Work &amp; Physical Modelling in Coastal &amp; Estuarine Engineering - Review &amp; future aspects -Part 2 - Prof. Torsten Schlurmann, Ludwig-Franzius-Institute for Hydraulic, Estuarine &amp; Coastal Eng., Leibniz University Hannover</p>	<p>Stepped revetments - Talia Schoonees - Ludwig-Franzius-Institute for Hydraulic, Estuarine &amp; Coastal Eng., Leibniz University Hannover</p>	<p>Marine Plastic Litter - Phenomenon &amp; means to combat littering of coasts &amp; oceans (Eng. point of view) - Prof. Torsten Schlurmann, Ludwig-Franzius-Institute for Hydraulic, Estuarine &amp; Coastal Eng., Leibniz University Hannover</p>	<p>Long-term Morphological Modelling for a Port in Chile. - Pierre-Malan Hugo - PRDW</p>					
WED 29 AUG	<p>Environmental planning and conceptual design for large-scale seawater desalination projects: experiences from Durban and Cape Town - Annick Walsdorff CSIR</p>	<p>City of Cape Town V&amp;A Desalination Marine and Civil works - Meindertjan Rebel - WSP</p>	<p>Coastal Projects in the City of Cape Town (Houtbay dunes and the Strand sea wall) - Natalie Newman and Pierre Roux - City of Cape Town</p>	<p>Construction of the new Stand seawall, - Kevin Daddy - Ian Steunenberg - Civils2000</p>	<p><b>Excursion (by bus)</b> - <b>New Strand Seawall</b> - <b>Civils2000</b> - <b>14h00 to ~16h00</b></p>							
THU 30 AUG	<p>Welcome and Introduction to 1st African Session - Kishan Tulsi - PIANC YP &amp; SAICE Marine</p>	<p>PIANC YP &amp; SAICE Marine - Design Process for the Strandfontein Desalination Plant - Chris Barrett - PRDW</p>	<p>PIANC YP &amp; SAICE Marine - Construction of the Strandfontein Desalination Plant - Tim Milner &amp; Yamkela September</p>	<p>PIANC YP &amp; SAICE Marine - Climate Change - Christo Rautenbach - Marine Research Unit, South African Weather Service</p>	<p>PIANC YP &amp; SAICE Marine - The Sand Bypass System at Port of Ngqura - Tauqeer Ahmed - Transnet National Ports Authority</p>	<p>PIANC YP &amp; SAICE Marine - Port of East London Coastal protection - Malefetsane Setaka &amp; Masupha Letsie - Transnet National Ports Authority</p>	<p>15:30 to 16:00 Maria Le Roux - Assessment of plume dispersion by means of physical measurements 16:00 to 16:30 PIANC YP / SAICE Marine Working group discussion Kishan Tulsi</p>	<p><b>Cocktail Party at NH The Lord Charles Hotel - 17:00 to 18:30</b></p>				
FRI 31 AUG	<p>Designing with nature - sand breakwaters - Carl Welitz - CSIR</p>	<p>Environmental Engineering: Learning from Nature - Laurie Barwell - Alternative Services Technologies (Pty) Ltd</p>	<p>Case study on a challenging Quasi 3D physical model recently completed. - Johan Kieviet - CSIR</p>	<p>Proclaimed Fishing Harbours – Work Package 3: West Coast – Dredging and Disposal Site Assessment - James Wiley - Aurecon</p>	<p>Constructing in the Arctic – a case study (t.b.c.) - Christiaan De Wet - Hatch</p>	<p>Discussions and networking closure at 15h</p>						