

**PORT ENGINEERING SHORT COURSE 2017 - Theme: Liquid bulk terminals and Ship navigation**

PROVISIONAL PROGRAMME 14 TO 18 AUGUST 2017 VENUE : STIAS CENTRE (Stellenbosch)

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 [1.5 hours]					
	08:00 to 09:00	09:00 - 09:45		09:45 - 10:30	10:30 to 11:00		11:00 - 11:45	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 17:00
MON 14 AUG	REGISTRATION 08h00 - 09h00	09:15 Opening Prof. Kobus du Plessis Head Civil Engineering, Stellenbosch University Introduction Koos Schoonees TNPA Chair, Port & Coastal Engineering, Stellenbosch University	TEA / COFFEE	Conceptual design of fairways and turning basins (PIANC) Christoph Burmeister Fraunhofer Center for Maritime Logistics and Services CML, Hamburg		LUNCH	Numerical modelling and navigation for bridge pier protection design, Vancouver Hermanus Henning and Luther Terblanche WSP		TEA / COFFEE	Safety of ship navigation in ports Jatin Harribhai CSIR		Case study 2 Jon Sherry PRDW			
TUE 15 AUG		Navigational safety: IMO safety assessment methodology and ship handling simulation Christoph Burmeister Fraunhofer Center for Maritime Logistics and Services CML, Hamburg		AIS data: Vessel traffic patterns and maritime safety Dr Martin Schultz, US Army Corps of Engineers			Aids to Navigation; Vessel Traffic Services; Lighthouses (SA perspective) David Gordon, TNPA			Design considerations for Oil & Gas terminals Roelof Loots WSP		Construction of Liquid bulk facility in Ghana Karl Heath, Clough, Murray & Roberts			
WED 16 AUG		Single Point Moorings David Pitt Wayland Engineering		TEA / COFFEE	Ship simulation: desk- top to full bridge simulation Dr Keith Martin US Army, Corps of Engineers		Pipeline Inspection and Pigging David Pitt Wayland Engineering			Excursion to ship simulators (SA Maritime Training Academy (SAMTRA), Simon's Town) - by Bus (12:15-17:00) followed by Cocktail Party at STIAS (17:00-18:00)					
THU 17 AUG		Resilience of maritime ports Katherine Touzinsky US Army, Corps of Engineers			Navigational risk assessment in changing traffic patterns based on frequency models and AIS-data analytics; Sea Traffic Management Christoph Burmeister Fraunhofer Center for Maritime Logistics and Services CML, Hamburg		Harbor seiching: Numerical modeling, solutions and case studies TBD US Army, Corps of Engineers					Safety of life and property at sea Captain Ravi Naicker, SA Maritime Safety Authority		Prevent and combat pollution of the marine environment by ships Captain Ravi Naicker, SA Maritime Safety Authority	
FRI 18 AUG		Marine engineering challenges of the Costa Concordia recovery / removal operation Capt Nick Sloane Sloane Marine			TEA / COFFEE		Salvaging within a port environment Capt Nick Sloane Sloane Marine			Rapid port repair Justin Strickler US Army, Corps of Engineers		Metocean and coastal siting challenges for LNG terminals off the African coast F Smit Advisian		Considerations in developing an LNG terminal for gas supply with case studies Dr Gary Mocke Advisian	