

AFRICAN TRACK AND TECHNOLOGY SYMPOSIUM

INFRASTRUCTURE MAINTENANCE MANAGEMENT 30 SEPT TO 4 OCT 2019

	Time		Duration	Lecture	Presenter	Pres No.	Paper No.
	From	To					
Monday	07h00	08h00	60 min	Registration			
	08h10	08h30	20 min	Opening	Mr Jonathan Duvel		
	08h40	09h50	70 min	Lifecycle Management	Dr Leon Zaayman	1	
	10h00	10h20	20 min	Tea			
	10h30	11h00	30 min	Lifecycle Management (continued)	Dr Leon Zaayman		
	11h10	11h40	30 min	Safety, Risk and Environment in Feasibility & Design	Dr Willem Sprong	2	
	11h50	12h20	30 min	Integrated Railway System Design and Performance	Dr Chris Dutton	3	3
	12h30	13h20	50 min	Lunch			
	13h30	14h00	30 min	Rail Infrastructure - Efficiencies and Financial Viability	Dr Friedel Mulke	4	
	14h10	14h50	40 min	Geometric Design of Railway Track in Practice	Mr Nico Pienaar	5	
	15h00	15h20	20 min	Tea			
	15h30	16h00	30 min	Substructure Design (Ballast)	Dr Leon Zaayman	6	
16h10	17h00	50 min	Ballast Cleaning	Mr Martin Winkelmayer	7		
Tuesday	08h10	09h10	60 min	Substructure Design (Formation)	Prof Hannes Gräbe	8	
	09h20	09h50	30 min	Rehabilitation of Railway Slopes	Mr David Mpye	9	9
	10h00	10h20	20 min	Tea			
	10h30	10h50	20 min	Rail Infrastructure Track Drainage Design	Dr Friedel Mulke	10	
	11h00	11h20	20 min	Rails Design	Mr Stefan Ziegerhofer	11	
	11h20	11h40	20 min	Rails Handling & Transportation	Mr Wolfgang Pesec		
	11h50	12h20	20 min	Rail Joints	Mr Johan de Koker	12	
	12h30	13h20	50 min	Lunch			
	13h30	14h50	60 min	Wheel & Rail Interaction	Mr Georg Hettasch	13	13
	15h00	15h20	20 min	Tea			
15h30	16h00	30 min	Sleeper Selection, Handling and Transportation	Mr Kobus Burger	14		
Wednesday	08h10	08h30	20 min	Industry 4.0 for track maintenance	Mr Martin Winkelmayer		
	08h40	09h10	30 min	Ground Penetrating Radar – Principles and Applications	Prof Hannes Gräbe	16	
	09h20	09h50	30 Min	Track Infra Requirements for the Digital Railway	Prof Hannes Gräbe	17	
	10h00	10h20	20 min	Tea			
	10h30	11h00	30 min	Infrastructure Geometry Measuring and Recording	Mr Jonathan Duvel	18	
	11h10	11h40	30 min	Ultrasonic Detection of Rail Defects	Mr Gerald Du Randt	19	
	11h50	12h20	30 min	Rail Profiling / Grinding	Mr Georg Hettasch	20	20
	12h30	13h20	50 min	Lunch			
	13h30	14h10	40 min	Rail Welding	Mr Kanak Mistry	21	
	14h20	14h50	30 min	Rail Wear Limits & Rail Defects	Mr Kanak Mistry	22	
15h00	15h20	20 min	Tea				
15h30	16h30	60 min	The Effect of Maintenance on Network Capacity	Dr Leon Zaayman	23		
Thursday	08h10	09h10	60 min	Mechanised Ballast Tamping	Dr Leon Zaayman	24	
	09h20	09h50	30 min	Machine Ownership and Contracting Options	Mr Jonathan Duvel	25	
	10h00	10h20	20 min	Tea			
	10h30	11h00	30 min	Dynamic Track Stabilising	Dr Leon Zaayman	26	
	11h10	11h30	20 min	Rail Lubrication	Mr Johan de Koker	27	
	11h40	12h20	40 min	Track Renewal	Mr Jonathan Duvel	28	
	12h30	13h20	50 min	Lunch			
	13h30	14h30	60 min	Formation Rehabilitation	Mr Jonathan Duvel	29	
14h40	17h00		Cocktail Function sponsored by VAE-SA				
Friday	08h10	08h40	30 min	Considerations for Electrification	Dr Willem Sprong	30	
	08h50	09h50	60 min	OHTE Design	Mr Felix Slier	31	31
	10h00	10h20	20 min	Tea			
	10h30	11h20	50 min	Substation Design	Dr Willem Sprong	32	
	11h30	12h20	50 min	Risk-Based Approach to Railway Safety Management	Dr Willem Sprong	33	
	12h30	13h20	50 min	Lunch			
	13h30	14h10	40min	Electrical Safety	Mr Dawie Kruger	34	34
14h20	15h00	40min	Incident Investigation and Reporting	Dr Willem Sprong	35		