



NICOLA 2022 Annual Conference
“Resiliency, Nature & Climate Solutions:
Striving for Sustainable Land Management”

16 - 17 NOVEMBER 2022 – Mount Nelson Hotel, Cape Town

CONFERENCE PROGRAMME

Day 1: 16 November 2022						
Time			Session Theme	Presenter		
09:00	to	09:15		Acknowledgements and Welcome	Tracey Drew (NICOLA Chair)	
09:15	to	09:35		Opening address by the Deputy Director-General: Chemicals and Waste Management of the Department of Forestry, Fisheries and the Environment: Ms Mamogala Musekene	DFFE	
09:35	to	10:10		Keynote 1: Farming for the future: Insights from a viticulturist	Craig Harris (Klein Constantia)	
10:10	to	10:35	Nature based solutions for site assessment & remediation	Presentation 1: Risk assessment and management following a pesticide spill into a river system	Sifiso Collen Nkosi (GPT)	
10:35	to	11:00		MORNING TEA BREAK		
11:00	to	11:25		Presentation 2: An assessment of a degraded LNAPL plume using NSZD: A case study of a site in South Africa	Katlego Maake, Kirby Gimson (ERM)	
11:25	to	11:50		Presentation 3: Performance monitoring of monitored natural attenuation using geochemical parameters	Andrew Gemmell (SLR)	
11:50	to	12:15		Incorporating climate resilience into site assessment and remediation	Presentation 4: The resilient remediation conundrum – balancing remedial technology selection	Alan Thomas (ERM)
12:15	to	12:40			Presentation 5: Review of soil to groundwater risk drivers for organic contamination under future climate change scenarios	BJ Smit (GPT)
12:40	to	13:40		LUNCH		
13:40	to	14:05	Maximising sustainability (social, environment and economic) & circularity in remediation	Presentation 6: European union new soil strategy for 2030 and corporate sustainability due diligence directive	Fanny Vellin (CLP-Cliperton)	
14:05	to	14:30		Presentation 7: The incorporation of sustainable remediation during the closure and remediation of an agrochemical manufacturing facility	David Manning, Alan Thomas (ERM)	
14:30	to	14:55		Presentation 8: Sustainable cyclic remediation of a heavily impacted site with xylene – 100% biological treatment of soil, groundwater and soil vapor	Michela de Camillis (Greensoil)	
14:55	to	15:15		AFTERNOON TEA BREAK		
15:15	to	15:40		Presentation 9: Responsible retirement of assets on contaminated land in the South African context	Heidi G. Snyman (WSP)	
15:40	to	16:05		Presentation 10: Sustainable remediation of groundwater contaminated with chlorinated solvents at an active industrial site	Andrea Bianchini (Geostream)	
16:05	to	16:30		Presentation 11: A Sustainable nutrient enhanced approach to UST site clean-up	John Sohl (Columbia Technologies)	
16:30	to	16:35		WRAP UP DAY 1		
16:35	to	18:35	Planetarium Networking Event			
19:00	to	21:30	Celebratory Dinner			

Day 2: 17 November 2022				
Time		Session Theme	Presenter	
07:30	to	08:45	NICOLA AGM (members only)	Tracey Drew (NICOLA Chair)
09:00	to	09:05	Acknowledgements and Welcome	Prathna Benimadho (NICOLA)
09:05	to	09:20	Gift of the Givers Collaboration	Badr Kazi (Gift of the Givers)
09:20	to	10:05	Keynote 2: Phytoremediation advances in restoration of contaminated and drought affected areas using endophyte assisted technology	Renee Murphy (Intrinsyx)
10:05	to	10:30	Presentation 12: Soil and groundwater contaminated land management: impacts from a changing climate in RSA	Simo Constantatos (GPT)
10:30	to	10:55	Presentation 13: Assessment of the potential impact of climate-change driven drought conditions to increase the risk to groundwater users in the vicinity of retail service stations with the onset of “day zero” in the Nelson Mandela Bay	Andrew Gemmell (SLR)
10:55	to	11:10	MORNING TEA BREAK	
11:10	to	11:35	Presentation 14: Assessing the importance of carbon emissions intensity during remedial selection and implementation – where sustainable remediation meets net zero	Samuel Mohr (ERM)
11:35	to	12:00	Presentation 15: Case study of ecosystem recovery from a hydrocarbon release	Adam Smith (RGM)
12:00	to	13:00	LUNCH	
13:00	to	13:35	Keynote 3: Application of isotope hydrology to contaminant problems	Ismail Mahomed (SRK)
13:35	to	14:00	Presentation 16: Circling the drain: Altering historic linear waste production processes by incorporating the circular economy	Simone Dahms-Verster (Wits University)
14:00	to	14:25	Presentation 17: Innovative bioremediation of MTBE and organics: In-situ bio-sparging and high yield MTBE bioreactor development	Martin Slooijer (Greensoil)
14:25	to	14:50	Presentation 18: A sustainable approach to remediation of soil and groundwater contaminated with metals, metalloids, and chlorinated organic compounds	Theo Ferreira (Georem)
14:50	to	15:15	Presentation 19: Application of in-situ biosparging to remediate crude oil impacts in groundwater: a pilot trial field study in Nigeria	Sam Campbell (ERM)
15:15	to	15:40	AFTERNOON TEA BREAK	
15:40	to	16:05	Presentation 20: Contaminants of emerging concern and emerging contaminants in the management of contaminated land	Adam Sanderson (WSP)
16:05	to	16:30	Presentation 21: Microplastics – What are they and what’s being done about them?	Lucy Thomas (RSK)
16:30	to	16:55	Presentation 22: Assessing the movement of microplastics through saturated sands, introduced by treated wastewater in managed aquifer recharge basins	Sebastian Stenzl (University of Western Cape)
16:55	to	17:00	WRAP UP DAY 2	
				Heidi Snyman (NICOLA Vice-Chair)