2nd DRONE USERS CONFERENCE: CONSERVATION & AGRICULTURE

Time	Duration	Speaker	Affiliation	Theme	Topic
			MONDAY, 29 NOVEMBER 2021		
08h00			Arrival, tea and registration		
08h30	5		Opening video by Ms Tamiko Sher		
08h35	15	Dr Ivan Meyer	Western Cape Provincial Minister for Agriculture		Welcome
08h50	25+5 Q&A	Prof Serge Wich	School of Biological and Environmental Sciences, Liverpool John Moores University (LJMU)	Drone Applications	Keynote speaker - Drones, conservation, and machine learning: state-of-the-art and future
09h20	20+5 Q&A	Ms Tamiko Sher	Executive Director, African Institute for Entrepreneurship (AIFE)	Drone Operations & Management	Drones: Key insights from the experts, reflections from the 2021/2022 drone industry in SA publication
09h45	20+5 Q&A	Ms Terriann Thavar	Student, University of Pretoria	Drone Applications	The use of UAVs to quantify Southern right whale (*Eubalaena australis*) body condition at the South Africa breeding ground.
10h10	20+5 Q&A	Dr Mbulisi Sibanda	University of Western Cape	Data Analysis & Interpretation	Detecting the impact of hail damage on maize crops in smallholder farms using Unmanned aerial vehicles derived multispectral data
10h35	15	Lehman Lindeque	Sustainable Land Management Programme Manager, UNDP		Report back from Drone Users Conference 2019
10h50			TEA		
11h20	20+5 Q&A	Sean Hill	EARTH Drones	Data Analysis & Interpretation	Using UAVs, photogrammetry and GIS to extract and analyse environmental data
11h45	20+5 Q&A	Vice Phiri	Co-founder and CEO, Africa Drone Kings	Drone Operations & Management	Current Drone Technology
12h10	20+5 Q&A	Dr Margarita Mulero Pazmany	Liverpool John Moores University (LJMU)	Drone Applications	Development of a fixed-wing drone system for aerial insect sampling
12h35	20+5 Q&A	Ms Helen Snethemba Ndlovu	Student, University of KwaZulu-Natal	Drone Applications	A Comparative Estimation of Maize Leaf Water Content Using Machine Learning Techniques and Unmanned Aerial Vehicle (UAV)-Based Proximal and Remotely Sensed Data
13h00			LUNCH		
14h00	20+5 Q&A	Mr Albert Myburgh	Student, University of KwaZulu-Natal	Data Analysis & Interpretation	Quantifying crocodile welfare in open pens on commercial crocodile farms in South Africa using a UAV and open source software
14h25	20+5 Q&A	Ms Siphiwokuhle Buthelezi	Student, University of KwaZulu-Natal	Drone Applications	Estimating maize yield using UAV derived data in Smallholder farms of KwaZulu-Natal, South Africa
14h50	20+5 Q&A	Arie van Ravenswaay	Western Cape Government, Department of Agriculture	Drone Applications	Drones in Agriculture: A diversified view of drone usage in Government, Research and the Agricultural Sector
15h15	10	Lehman Lindeque	Sustainable Land Management Programme Manager, UNDP		Key learnings Day 1
15h25			TEA AND INFORMAL NETWORKING SESSION (IN-PERSON AND VIRTUAL)		
16h00			CLOSE FOR THE DAY		

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	TUESDAY, 30 NOVEMBER 2021				
08h00	Tea and Coffee				
Time	**Duration**	**Speaker**	**Affiliation**	**Theme**	**Topic**
08h30	25+5 Q&A	Louise Jupp	Commercial Drone Pilot & Instructor, Terreco Aviation	Drone Operations & Management	Keynote Speaker - A Case for Establishing a Drone Corridor and Tech Hub for South Africa
09h00	20+5 Q&A	Christiaan Harmse	Ecologist, Department of Agriculture Northern Cape	Drone Applications	Plant species identification using drone based hyperspectral technology – lessons learned and outcomes
09h25	20+5 Q&A	Robert Britz	Sales and Marketing Manager, Drone-X	Drone Operations & Management	RPL Training
09h50	20+5 Q&A	Matt Pretorius	Senior Field Officer, Wildlife and Energy Programme - Endangered Wildlife Trust	Drone Applications	A remotely piloted aircraft system for marking live power lines in South Africa
10h15	20+5 Q&A	Ms Yolandi Schoeman	North-West University	Drone Applications	A hybrid drone approach to decipher coupled human and natural systems in luxury ecotourism destination in protected areas, South Africa
10h40	TEA				
11h10	20+5 Q&A	Meyer de Kock	Station Manager, Hans Hoheisen Wildlife Research Station University of Pretoria	Data Analysis & Intepretation	Drone imagery: Automated detection and feature extraction of wildlife
11h35	20+5 Q&A	Sam Twala	Founder and Managing Director, NTSU Aviation Solutions	Drone Operations & Management	Drone operations and management in the public sector
12h00	20+5 Q&A	Dean Polley	Chief Executive Officer, SSASS	Drone Applications	Using drones in managing human elephant conflict
12h25	20+5 Q&A	Dr Debbie Jewitt	Specialist Scientist, Ezemvelo KZN Wildlife	Drone Applications	Wildlife disturbance by drones
12h50	LUNCH				
13h50	60	Lourens Leeuwner	Manager of Wildlife and Energy Programme, Endangered Wildlife Trust	Drone Operations & Management	Workshop discussion: Approaching wildlife with drones: ethical considerations
14h50	20+5 Q&A	Dr Dirk Troskie	Western Cape Dept of Agriculture	Drone Operations & Management	The future of agriculture in the Western Cape and the role of technology
15h15	TEA				
15h25	10	Lehman Lindeque	Sustainable Land Management Programme Manager, UNDP		Key learnings Day 2
15h35	10	Dr Ilse Trautmann	Western Cape Dept of Agriculture		Conclusion
15h45	CLOSE FOR THE DAY				

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Time		Speaker	Affiliation	Theme	Topic
			WEDNESDAY, 1 DECEMBER 2021		
08h00			Tea and Coffee		
Time		**Speaker**	**Affiliation**	**Theme**	**Topic**
08h30	**30**	Prof Serge Wich	School of Biological and Environmental Sciences, Liverpool John Moores University (LJMU)	Data Analysis & Interpretation	Demo of ConservationAI website
09h00	**240**	Renier Balt	Manager, Global Mapper GIS Software SMC Synergy	Data Analysis & Interpretation	Global Mapper Pro Introductory Training: An affordable GIS system with drone imagery processing capabilities (session includes tea break)
13h00			LUNCH		
14h00	**90**	Prof Serge Wich	School of Biological and Environmental Sciences, Liverpool John Moores University (LJMU)	Drone Operations & Management	MSc and Thermal Detection Demonstration
15h30			TEA		
15h40	**60**	Francois Koegelenberg	GIS Services Manager, Western Cape Government, Department of Agriculture	Data Analysis & Interpretation	Functionality of Cape Farm Mapper
16h40			Raffle (both in-person and virtual prizes)		
17h00		Cobus Theron	Drylands Conservation Manager, Endangered Wildlife Trust		Close of the conference