

# WindAc Africa 2017: DRAFT programme

## DAY 1: Tuesday 14 November

8.00 – 9.00	Registration and refreshments		
9.00 – 10.00	<p>Welcome by <b>Brenda Martin, CEO at the South African Wind Energy Association (SAWEA)</b></p> <p>Opening by <b>Dr Phil Mjwara, Director General at the Department of Science and Technology (DST), South Africa</b> - TO BE CONFIRMED</p> <p>Keynote address by <b>William Kamkwamba, Malawi ("The boy who harnessed the wind")</b> - TO BE CONFIRMED</p> <p>Introductory remarks by a <b>United Nations Development Programme (UNDP)</b> representative</p>		
10.00-10.20	Coffee/Tea break		
10.20-12.00	<b>The Wind resource</b>	<b>David Pullinger:</b> Novel statistical validation of long-term consistency of reanalysis models in South Africa	Lyods register, United Kingdom
		<b>Johan Stander:</b> Bench marking commercial wind resource assessment and micro-siting software	Council of Scientific and Industrial Research (CSIR), South Africa
		<b>Christiaan Homann:</b> Comparison of WASA1 and WASA2 wind maps to long term measurements	Mainstream Renewable Power, South Africa
		<b>Dr Andrea Hahmann:</b> Interpreting wind energy resource visualisations in South Africa	Technical University of Denmark (DTU), Denmark
		<b>Celeste Renaud:</b> Quantifying the wind speed characteristics of the Northern Cape and investigating the synoptic drivers of these characteristics	University of Cape Town (UCT), South Africa
12.25-13.15	Lunch break		
13.15-14.55	<b>Wind turbine technology</b>	<b>Tshamano Nemirini:</b> Optimisation of bio-inspired corrugated airfoil for small-scale horizontal axis wind-turbine	University of South Africa (UNISA), South Africa
		<b>Unarine Ramakokovhu:</b> Impact of welding on fatigue life of wind turbine blades	Tshwane University of Technology (TUT), South Africa
		<b>Arne Gloe:</b> Measurements of the dynamic response of a wind turbine to excitations from the wind	Flensburg University Of Applied Sciences, Germany
		<b>Akinola Ajayi-Obe:</b> Comparative Evaluation of Transformer-less Configurations for Wind Energy Conversion Systems	University of Cape Town (UCT), South Africa
14.55-15.15	Coffee/Tea break		
15.15-16.30	<b>Wind turbine operation</b>	<b>Mpendulo Kona:</b> An Analysis To Identify Critical Component Failure In Onshore Wind Turbine Generators	Globeleq South Africa
		<b>Konstantinos Pierros:</b> Inertial Response by Type IV Wind Turbines Experiences in Canada and in Ireland	Enercon, United Kingdom
		<b>Nkateko Nkuna:</b> Grid Frequency Support By Coordinated Rotor Speed And Pitch Angle Control Of Wind Turbines	University of Cape Town (UCT), South Africa
16.30-16.50	Coffee/Tea break		
16.25-18.30	<b>Sustainable development</b>	<b>Ntombifuti Ntuli:</b> Co-Benefits of Renewable Energy Deployment in South Africa	Council of Scientific and Industrial Research (CSIR), South Africa
		<b>Dr Eugene v Rensburg:</b> Innovative wind-based energy technologies for sustainable food production	Stellenbosch University (SU), South Africa
		<b>Marie-Louise Van der Walt:</b> The likely size and sustainable development impact of South Africa's Wind Energy Sector in 2050	Alakriti Consulting, South Africa
		<b>Dr Peter Westoby:</b> The possibilities of community development within renewable energy innovations - towards sustainable development	University of Queensland, Australia

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## DAY 2: Wednesday 15 November

8.00 – 9.00	Registration and refreshments		
9.00-10.15	Wind power and environment	<b>Bernard Oberholzer:</b> Visual, Aesthetics and Scenic Resources in relation to Wind Energy Farms	Institute for Landscape Architecture in South Africa
		<b>Samantha Ralston-Paton:</b> How birds have been affected by some of the first wind farms in South Africa.	Birdlife South Africa
		<b>Lydia Cape:</b> Exploring pluralism – different stakeholder expectations of the value of Strategic Environmental Assessment (SEA)	Council of Scientific and Industrial Research (CSIR), South Africa
10.15-10.30	Coffee/Tea break		
10.30-12.10	Design of wind systems	<b>Clement Venter:</b> The Effect of Wind Farms on the Power Quality of Rural Distribution Networks and Consumers	Eya Bantu Professional Services, South Africa
		<b>Dr Jonas Hoersch:</b> PyPSA-ZA: Investment and operation co-optimization of integrating wind and solar at high spatial and temporal detail	Frankfurt Institute For Advanced Studies, Germany
		<b>Jarrad Wright:</b> Future wind deployment scenarios for South Africa	Council of Scientific and Industrial Research (CSIR), South Africa
		<b>Tim Reber:</b> South Africa Grid Integration Study	National Renewable Energy Laboratory (NREL), USA
12.10-13.00	Lunch break		
13.00-14.40	Operating of wind systems	<b>Matthew Groch:</b> High Wind Speed Cut-out Event Description, Modelling and Analysis	Stellenbosch University (SU), South Africa
		<b>Dr Clemens Jauch:</b> Flexible Wind Power Control for Optimal Power System Utilisation	Flensburg University Of Applied Sciences, Germany
		<b>Dr Jenny Riesz:</b> Managing low inertia in Australian Grids	Australian Energy Market Operator (AEMO), Australia
		<b>Ntlahla Ntsadu:</b> Wind Energy Conversion System Voltage Ride Through Capability Enhancement Through STACOM Installation to Improve Transient Stability	Eskom, South Africa
14.40-15.00	Coffee/Tea break		
15.00-16.40	Energy policy and energy economics	<b>Dr Klaus Skytte:</b> From passive to active actors at the power market: Regulatory Barriers and Business Opportunities for Wind Power Plants	Technical University of Denmark (DTU), Denmark
		<b>Dr Stefan Bofinger:</b> Comparing wind energy LCOE estimation approaches	Fraunhofer Institute for Wind Energy and Energy System Technology (IWES), Germany
		<b>Dr Shalalanda Baker:</b> Just Energy Auctions	Northeastern University, USA
		<b>Dr David Jacobs:</b> The Renewables Breakthrough: How to Secure Low Cost Renewables	International Energy Transition, Germany
16.40-17.00	Coffee/Tea break		
17.00-18.15	Global outlook	<b>Dr Sebastian Goers:</b> The regional roles and benefits of wind power	Energy Institute at the Johannes Kepler University Linz, Austria
		<b>Dr Jenny Riesz:</b> Lessons from the Australian System Black out	Australian Energy Market Operator (AEMO), Australia
		Closing address by <b>Paolo Frankl</b> - TO BE CONFIRMED	International Energy Agency (IEA), France
		Conference closing by <b>Steve Sawyer</b>	Global Wind Energy Council (GWEC), Belgium