



**TRAINING WORKSHOP:  
CLIMATE SMART  
AGRICULTURE FOR POVERTY  
ALLEVIATION**



**P R O G R A M M E**

**11-13 DECEMBER 2024**



**AGRICULTURAL RESEARCH COUNCIL  
VEGETABLE, INDUSTRIAL AND MEDICINAL PLANTS  
R573 MOLOTO ROAD, ROODEPLAAT PRETORIA**

**Day 1: 11 December 2024**

**9:00-17:00 (SAST time)**

**Opening and Welcome Speeches**

TIME	ACTIVITY	ORGANISATION & RESPONSIBLE PERSON
9:00-9:10	Opening and welcome remarks by ARC	Dr Petronella Chaminuka
9:10-9:20	Opening remarks by Chinese Embassy in South Africa	Minister Counsellor, Shen Long, Chinese Embassy in South Africa
9:20-9:30	Opening remarks by CAAS (Video Message)	CAAS Vice President, Prof Sun Tan
	Campus Overview and OHS orientation	Prof Michael Bairu Ms Princess Mushwana
9:30-9:40		

**Session I: Climate-Smart Crop Breeding and Green Prevention and Pests & Diseases Control**

9:40-10:20	Molecular breeding for enhanced drought tolerance in maize challenged by climate change	Prof. Zhao Jun, National Nanfan Research Institute, CAAS
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**TEA BREAK (10:20 - 10:40)**

10:40-11:50	Climate smart strategies in crop production	CSA Vegetables - Dr Melvin Nyathi CSA Subtropical Fruits - Dr Romeo Murovhi CSA Grains Crops - Dr Zaid Bello. (ARC)
11:50-12:40	Green Prevention and Control Technologies for Corn Pests and Diseases	Dr. Wang Zeyu, Institute of Plant Protection, CAAS
12:40-13:00	Q&A for Section I	

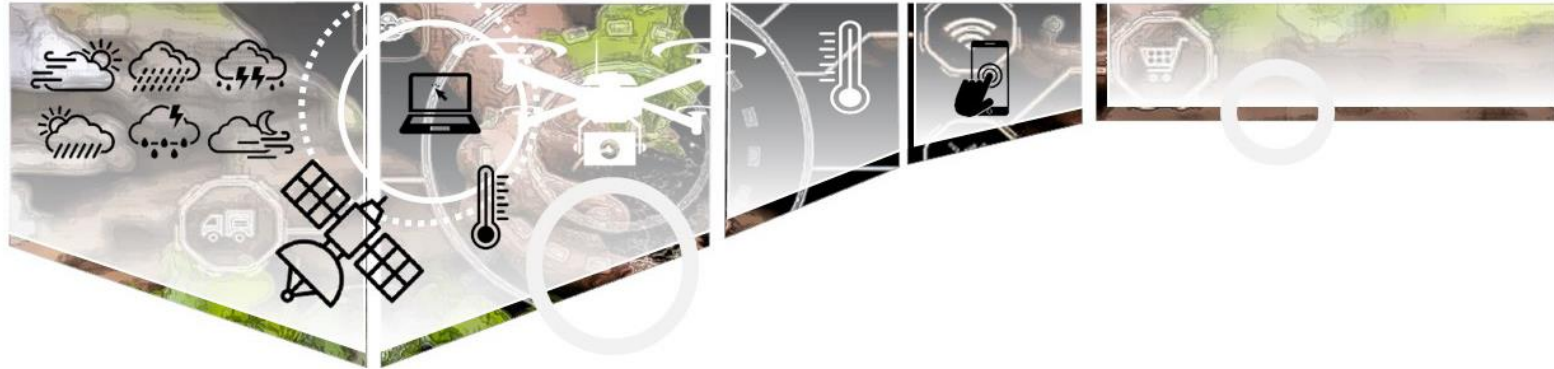
**LUNCH (13:00 - 14:00)**

**Session II: Climate-Smart Livestock Production**

14:00-14:50	Climate resilient beef production systems in today's world	CSA Animal Production, MC Mokolobate-Chadyiwa (ARC)
14:50-15:40	Forage quality: evaluation and application	Prof. Bu Dengpan, Institute of Animal Science, CAAS

**TEA BREAK (15:40 - 15:50)**

15:50-16:40	Agricultural Risk Reduction through Agrometeorological Applications: South African Perspective	Agrometeorology, Dr Gugulethu Zuma-Netshiukhwi (ARC)
16:40-17:00	Q&A for Section II	



**Day 2: 12 December 2024**  
**9:00-17:30 (SAST time)**

*Session III: Soil and Water Management*

TIME	ACTIVITY	ORGANISATION & RESPONSIBLE PERSON
9:00-9:50	Soils and fertility management strategies	Soils, Climate and Water, -Ms Patience Chauke (ARC)
9:50-10:40	Development and Practical Application of Intelligent Water Saving Irrigation Technology	Dr Si Zhuanyun, Institute of Farmland Irrigation, CAAS

**TEA BREAK (10:40 – 11:00)**

11:00-11:50	Water harvesting technologies and Wetland Management	Soils, Climate and Water, Althea Grundling (ARC)
11:50-12:40	Enhancement of Productivity and Resilience in Dryland Farming	Prof. Hao Weiping, Institute of Environment and Sustainable Development in Agriculture, CAAS
12:40-13:00	Q&A for Session III	

**LUNCH (13:00 - 14:00)**

*Session IV: Climate Change Resilience and Agricultural Risk Management*

14:00-14:50	Climate resilience: agricultural adaptation to climate change in South Africa	Grain Crops, Dr Zaid Bello (ARC)
14:50-15:40	Sustainable Rural Development through the Treatment of Agricultural Waste and Domestic Sewage	Prof. Long Yan, Biogas Institute, Ministry of Agriculture and Rural Affairs
15:40-16:00	Q&A for Session IV	
16:00-16:30	Certification ceremony & Wrap-up for the Workshop	ARC, CAAS, Chinese Embassy Representative

**TEA BREAK & CLOSURE FOR THE DAY (16:30)**



**Day 3: 13 December 2024**  
**8:30-13:30 (SAST time)**

*Field Trip and Demonstration (TBD by ARC)*

TIME	ACTIVITY	ORGANISATION & RESPONSIBLE PERSON
09:00 - 9:30	Orientation to field sites to be visited	Phumulo Maphuthuma
09:30 - 13:00	Field visits to farm sites on CSA practices	Phumulo Maphumulo, Thembi Ngotho and Brian Sithole
13:00 - 13:30	De-briefing on field experiences and lessons learnt	Thembi Ngotho

## DETAILED FIELD DAY PROGRAM

**Day 3: 13 December 2024**  
**8:30-13:30 (SAST time)**

*Field Trip and Demonstration (To Be Directed by ARC)*

TIME	ACTIVITY	RESPONSIBLE PERSON
09:00-09:30	Orientation to the three sites to be visited	Phumulo Maphuthuma
09:30-10:00	Hydroponics	Dr Beverley Mampholo
10:00-10:30	Travel to next site	Phumulo Maphuthuma
10:30-11:30	Water use efficiency	Dr Melvin Nyathi
11:30-12:00	Travel from site	Phumulo Maphumulo
<b>TEA BREAK (12:00-12:20)</b>		
12:20-12:45	Travel to next site	Phumulo Maphuthuma
12:45-13:15	CSA Forage solutions	Dr Francois Muller
13:15-13:30	Travel back to class	Phumulo Maphuthuma
13:30-14:00	De-briefing on field experiences and lessons learnt	Thembi Ngotho
<b>LUNCH &amp; DEPARTURE (14:00-15:00)</b>		