



# AFRICAN COMBINED CONGRESS FINAL PROGRAMME

14 - 18 JANUARY 2018  
RATANGA JUNCTION – CAPE TOWN



# AFRICAN COMBINED CONFERENCE 2018

## PARTICIPATING SOCIETIES



**South African Society of Crop Production  
Suid-Afrikaanse Vereniging vir Gewasproduksie**

E-mail: [sascp.secretariat@gmail.com](mailto:sascp.secretariat@gmail.com)  
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**Soil Science Society of South Africa  
Grondkunde Vereniging van Suid-Afrika**

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**Southern African Society for Horticultural Sciences  
Suider-Afrikaanse Vereniging vir Tuinbouwetenskappe**

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Website: [www.sashs.co.za](http://www.sashs.co.za)



**Southern African Weed Science Society  
Suider-Afrikaanse Vereniging vir Onkruidwetenskap**

E-mail: [mikefe@elsenburg.com](mailto:mikefe@elsenburg.com)  
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# LOCAL ORGANISING COMMITTEE

Prof Nick Kotze (Chairman)

Dr Deon Joubert

Dr Diana Marais

Mrs Janine Abrahams (Tourvest)

Dr Johann Strauss

Dr Cathy Clarke

Ms Louisa Blomerus

Dr PJ Pieterse

Mrs Nancy Nortje

Ms Rahkeenh Peters

## Reviewers:

Our sincerest gratitude to all the editors and reviewers.

## Ratanga Junction support:

Thank you to the team at Bridgeways for all the assistance with the conference especially Bridget Locke and Lara Zegal.

## IMPORTANT NOTES:

All persons entering Ratanga Junction (regardless of entry point) will be subject to the standard park entry procedure, including metal detector screening and all bag screening. This entire screening process will be available for preview upon request. Booms to be opened on arrival & departure. No individual charge for parking, however please announce that you are attending the African Combined Congress. During park operating days it is important to note that you may enter the park anytime before 09h00 if you arrive after 09h00 you will need to wait for the park to open at 10h00 before gaining access. It is important to note that there will be multiple events taking place within Ratanga and whilst we have exclusivity of the conference venue there will be pedestrian traffic and sound past the venue.

# MESSAGE FROM THE CHAIRMAN OF THE LOCAL ORGANISING COMMITTEE

Dear Delegate

It is the privilege of the LOC to present the African Combined Congress 2018 at Ratanga Junction, Cape Town. Whilst we, as South Africans, have become used to the combined congresses of the South African Society of Crop Production, Southern African Weed Science Society, Southern African Society for Horticultural Sciences and Soil Science Society of South Africa, we would like to especially welcome members of the African Crop Science Society, who have joined us to present the African Combined Congress of 2018.

To all South Africans and to our international guests, we hope you will enjoy the beautiful scenery of Cape Town and the Western Cape. Please take special note, we are in the midst of the worst drought in more than a hundred years and hence a serious request to adhere to water use restrictions of not more than 85l of water per person per day. We rely on your cooperation in this regard, as we have serious concerns that Cape Town and the bigger metropole might run dry towards May 2018.

Due to low economic growth experienced during 2017, budgets are slightly more conservative than previous years but we have done our utmost not to compromise the experience. We are grateful to you for the approximate 200 oral presentations and 130 posters received. Whilst we will enjoy the fruit of your hard work, we know that these feedback sessions are the conclusion of many years of research and field work done in challenging environments and circumstances. Congratulations on a job well done! To all of our keynote speakers, thank you for accepting the invitation, we look forward to listening to you, as world experts on the related topics.

To all members of the LOC, thank you for your time and effort to make the congress an enjoyable event, it's been highly appreciated. The LOC would like to express their sincere gratitude to all the reviewers for ensuring quality abstracts. The abstracts can be found on the Combined Congress website, should you wish to have a look at specific topics.

We are also grateful to our sponsors and exhibitors (Monsanto, Department of Agriculture Western Cape, Syngenta, Lasec, Ruforum, FERTASA, ARC and Haifa) for their support. Without our sponsors it would have been impossible to present this congress. Some of the sponsors will be presenting at the congress, while others will have displays and representatives to advise you on their products and support services throughout the duration of the congress. Please also show them your support and visit these displays. We also would like to thank delegates from the agricultural press and look forward to your contributions to transfer the knowledge to the bigger agricultural audience in a more palatable language.

Last but not least, a big thank you to all the loyal delegates who support the congress. At the time of writing, more than 400 delegates have registered from 15 different countries. We hope that you will benefit in using the opportunity to network and build strong relationships which will be crucial to ensure higher productivity and food security in the future.

Please enjoy the congress with us, meet up with old friends and colleagues, make new friends and enjoy our local scenery and many offerings. We trust that you will have a memorable and fruitful congress.

Kind regards

**Nick Kotzé**

**Chairman African Combined Congress LOC 2018**



# GENERAL INFORMATION

## REGISTRATION

Registration will take place at Ratanga Junction on Sunday on the 14th January from 16:00. Please ensure that you wear your name tag at all times during the conference.

## OPENING AND KEY NOTE ADDRESSES

This will take place at the start of each day in the Walled City. The times are indicated on the programme.

## PARALLEL SESSIONS

Parallel sessions will be held in the MegaVu, Smugglers, Ratanga Officers Club and Spice Island venues.

## REFRESHMENTS, LUNCH AND FUNCTIONS

Refreshments and lunches will be served daily in the Walled City at the times indicated in the programme.

The evening functions will be as follows:

### Monday 15 January 2018 - Cobra Thrill Cocktail

The Welcome Cocktail will be held in the Walled City with a pre-packed meal being served. The Cobra ride will be available between 17h30 and 18h30. Delegates are welcome to enjoy the cobra ride between those times.



### Tuesday 16 January 2018 – Braai and Congo Queen Dinner

The Braai will be held in the Walled City with a summer braai being served. The Congo queen ride will be available between 17h30 and 18h30. Delegates are welcome to enjoy the Congo ride between those times. Please note that only delegates who has booked and paid for the evening dinner may attend. Please collect your dinner ticket at registration. You will be required to show your ticket upon entry.



### Thursday 18 January 2018 – Gala Dinner

The Gala dinner will be held in the Walled City with a two course buffet dinner being served. Please note that only delegates who has booked and paid for the evening dinner may attend. Please collect your dinner ticket at registration. You will be required to show your ticket upon entry.



## EXCURSION INFORMATION:

The Excursion will be held on Wednesday 17th January 2018. Please check the signage on the vehicles to ensure that you are on the correct bus, before you depart for your excursion. You will receive a ticket at registration and will be required to show it to the usher before you get on the bus. Kindly note that only delegates who has signed up and paid for the excursion will be allowed on the vehicle.

### University of Stellenbosch Excursion

The University of Stellenbosch celebrate its centenary in 2018 and has recently been rated the best faculty of Agri-Science on the African continent. Join us for an interesting discussion, tour of historical buildings and wine tasting at the US wine cellar.

### SASHS

‘Oak Valley Estate: Orchard of the Future’.

At the foot of Africa, in a region of South Africa renowned for its spectacular scenery lies the Elgin Valley, home of the Two-a-Day Group (Pty) Ltd. Here, rich fertile soil, bracing winters and golden summers tempered by cool sea breezes, grow a large proportion of the southern hemisphere’s deciduous fruit crop. This crop is of such remarkably consistent juiciness and quality, that every year over seven million cartons of Two-a-Day fruit are consumed across five continents. The Two-a-Day Group (Pty) Ltd. is one of the leading fruit growing, packing and marketing companies on the African continent.

### SSSSA

This year’s soil excursion will take place on the Elsenburg farm near Klapmuts. The high spatial variability of soils on this farm creates a great opportunity to see some diverse profiles and put the new soil classification system to the test. The ancient termite mounds, heuweltjies, and palaeosurfaces add to the complexity of the soils and should make for an interesting excursion with plenty of discussion.

### SAWSS

Visit to a mechanical & chemical control team for alien invasive plants in Table Mountain National Park and a biocontrol mass-rearing facility in Westlake

### SASCP

Visit to Langgewens Research Farm with a focus on Conservation Agriculture long term trials, cover crop work and the integration of crops and live stock in these systems

## IMPORTANT INFORMATION FOR PRESENTERS

All presenters must take note of the date, venue and time of their presentations. You have 15 minutes for an oral presentation and an additional 5 minutes for questions. Time allocated for questions may also be used for you to move to another venue.

Please remember to have your presentation on a flash drive, ready to be uploaded. All Powerpoint presentations need to be uploaded beforehand during registration on Monday.

# PROGRAMME

MONDAY 15 JANUARY 2018

Time	Event		Venue	
08:00 – 10:00	Registration		Ratanga Junction	
<b>PLENARY SESSION</b>				
10:00 – 10:10	Welcome		Prof. T.N. Kotze	
10:10 – 10:40	Opening address		Prof Mohammed Karaan – Challenges facing Agricultural Sciences	
12:30 – 13:10	TEA			
11:00 – 11:10	ACSS Welcome		Prof Louisa dos Santos	
11:10 – 11:40	ACSS Keynote		Dr Joyce Chitja - Ensuring current and future Food Security: is the African farmer ready for addressing this wicked challenge?	
11:40- 12:10	African Combined Conference Plenary address		Dr Stephanie Midgley - Sustainable agricultural water management in times of increasing demand and scarcity	
12:00 – 12:30	Poster Session 1		Viewing of posters 1 - 65	
12:30 – 13:10	LUNCH – Walled City			
<b>SESSION 1 - MONDAY 15 JANUARY 2018</b>				
Subject	Agronomy – Plant nutrition	Hort production & cultivation practices	Soil physics	Weed management/ Crop protection
<b>Chairperson</b>	Gerrit Burger	Prof Isa Bertling	Dr Eduard Hoffman	Hestia Nienaber
<b>Venue</b>	MegaVu	Smugglers	Ratanga Officers Club	Spice Island
13:20 – 13:40	OPENING ADDRESS BY	OPENING ADDRESS BY	OPENING ADDRESS BY	OPENING ADDRESS BY
13:40 – 14:00	<b>Mahlangu</b> - Effect of different levels of nitrogen application and plant density on yield of basil and rocket	<b>Prins</b> - The impact of 20 % white shade netting on the microclimate of a ‘Nadorcott mandarin’ orchard and the tree physiology	<b>Van Antwerpen</b> - Electromagnetic induction: can it be used to identify the depth of abrupt change in clay content?	<b>Ferreira</b> - The evaluation of inter row cover crops for weed suppression in rooibos production systems



13:40 – 14:00	<b>Tchiaze</b> - Influence of nitrogen sources and plant growth-promoting rhizobacteria inoculation on growth, crude fiber and nutrient uptake in squash ( <i>Cucurbita moschata</i> duchesne ex poir.) plants	<b>Brown</b> - The impact of permanent 20% white shade netting on the vegetative/reproductive balance of 'nadorcott' mandarin	<b>Tesfamariam</b> - Sludge drying depth on drying beds affects the nitrogen and organic matter content of wastewater sludge	<b>Campbell</b> - Encouraging integrated weed management in the SA sugar industry
14:00 – 14:20	<b>Odedina</b> - Varying staking length in yam production and effect on growth and yield of white yam varieties	<b>Shereni</b> - The effect of biostimulants on establishment of nadorcott citrus trees	<b>van Schalkwyk</b> - Soil water balance and root development in roobos plantations under clanwilliam field conditions	<b>Fourie</b> - Cover crop performance in an apple orchard
14:20 – 14:40	<b>Migeri</b> - Human urine and its derived products as fertilizers for crop production	<b>Cameron</b> - The use of scanning electron microscopy and wavelength dispersive x-ray spectroscopy to quantify calcium uptake and distribution in apple white roots during winter	<b>Stofberg</b> - The effect of irrigation on the performance of young apple trees in newly established orchards.	<b>Allemann</b> - Evaluation of metham sodium for the control of volunteer potatoes
14:40 – 15:00	<b>Kunene</b> - Effects of organic and inorganic fertilisers on the growth and yield of amaranth ( <i>Amaranthus hybridus</i> L.)	<b>Mwije</b> - Investigating mode of action by which boron plus calcium foliar applications reduce apple sunburn	<b>Leygonie</b> - Once-off tillage before canola in conservation agriculture: the facts	<b>Ferreira</b> - Sustainable weed management options for Paterson's curse ( <i>Echium plantagineum</i> L.) suppression: preliminary results
15:00 – 15:20	<b>Netshithuthuni</b> - Effect of Disease Suppressive Compost combined with solarised soil on Onion white rot incidence, severity and plant growth	<b>Lötze</b> - Calcium dynamics of reproductive apple bud tissues during dormancy in the western cape, south africa	<b>Nyambo</b> - Soil aggregation under a maize based conservation agriculture system in the central eastern Cape Province in South Africa	<b>Mphahlele</b> - Aggressiveness of <i>Alternaria solani</i> isolates on two susceptible tomato cultivars
15:20 – 15:40	TEA - in various break-away venues			

## SESSION 2- MONDAY 15 JANUARY 2018

Subject	Agronomy – Crop production	Hort production & cultivation practices	Soil fertility/Soil biology	Weeds, crops and herbicides/Crop protection
<b>Chairperson</b>	Prof Ochanda Ogola	Mark Penter	Dr Rianto van Antwerpen	Dr James Allemann
<b>Venue</b>	<b>MegaVu</b>	<b>Smugglers</b>	<b>Ratanga Officers Club</b>	<b>Spice Island</b>
15:40 – 16:00	<b>Ndayisaba</b> - Comparative effect of desmodium on maize growth and yield after fifteen years of experiments	<b>Matafeni</b> - Rooting of rose-scented geranium cuttings as affected by growing media and rooting hormones	<b>Lukashe</b> - Inoculation of fly ash amended vermicompost with phosphate solubilizing bacteria ( <i>Pseudomonas fluorescens</i> ) improves vermi-degradation, nutrient release and biological activity	<b>Allemann</b> - Impact of drought on the allelopathic effects of Amaranth
16:00 – 16:20	<b>Dunjana</b> - Opportunities for soil fertility management in a small holder maize-tobacco farming system. a case of svosve communal area, zimbabwe.	<b>Pulela</b> - Yield and quality of sweet melon cultivars grown in hydroponics system	<b>Gobozi</b> - Evaluation of organic smallholder farmer soil amendment practices on soil fertility, broccoli yields and mineral nutrients	<b>Nienaber</b> - Tolerance of South African wheat cultivars to post-emergence herbicide application
16:20 – 16:40	<b>Chichongue</b> - Effects of tillage practices and cropping systems on maize grain yield in Mozambique	<b>Matafeni</b> - Effect of healing period on rooting response of rose-scented geranium cuttings	<b>Masowa</b> - Assessment of phytotoxicity and physico-chemical properties of co-composted winery solid waste using effective microorganisms inoculant	<b>Mzimela</b> - An investigation into the combined use of an entomopathogenic fungus and botanical insecticide for control of the Russian wheat aphid on wheat
16:40 – 17:00	<b>Nguenha</b> - Effectiveness of polyethylene container and airtight bags on maize grain storage for smallholder farmers in Mozambique	<b>Huma</b> - Effect of leaf harvesting frequency on yield parameters of four swiss chard ( <i>Beta vulgaris</i> ) cultivars	<b>Muzangwa</b> - Influence of tillage, crop rotation and residue management on soil microbial biomass carbon and selected soil enzyme activities in two ecotopes of the Eastern Cape Province	<b>Motholo</b> - Impact of insect host-background on virulence of <i>Beauveria bassiana</i> (Hypocreales: Cordycipitaceae) to Russian wheat aphid
17:00 – 17:20	<b>Oluwafemi</b> - Preliminary results on the chemical ecology of maize, maize streak virus and cicadulina vector interactions	<b>Bertling</b> - Effect of moringa leaf extract on growth and development of swiss chard and parsley	<b>Matlabane</b> - Soil fertility status of Eastern Cape soils analyzed at Dohne Agricultural Development Institute, Eastern Cape Province of South Africa	<b>Lebea</b> - Tomato yield and early blight incidence in response to cultivar and irrigation management practices in the Giyani municipality
17:30 - Late	Cobra Thrill Cocktail			

## TUESDAY 16 JANUARY 2018

Time	Event		Venue	
08:00 – 08:15	Registration		Ratanga Junction	
<b>PLENARY SESSION</b>				
<b>KEYNOTE ADDRESS – WALLED CITY</b>				
8:15 – 8:45	SASCP keynote		Dr André Nel - Sustainable crop systems for food security in South Africa	
8:45– 9:15	SSSSA keynote		Dr Johan van Zyl – The nexus between soil, water and food: A sustainability perspective	
<b>SESSION 3 - TUESDAY 16 JANUARY 2018</b>				
Subject	Agronomy –Climate change	Physiology	Soil technology	Post-harvest biology
<b>Chairperson</b>	Dr Peterson Niero	Dr Esmé Louw	Dr Cobus Botha	Dr Nhlanhla Mathaba
<b>Venue</b>	<b>MegaVu</b>	<b>Smugglers</b>	<b>Ratanga Officers Club</b>	<b>Spice Island</b>
9:20 – 9:40	<b>Mapumulo</b> - Subsistence farmers in Msinga Municipality use conservation agriculture to mitigate climate change in KwaZulu Natal	<b>Van der Loo</b> - Pre breed screening for Naringin and Naringenin content in Grapefruit	<b>Du Plessis</b> - An electronic decision support system to determine the site-specific fitness-for-use of irrigation water	<b>Cronje</b> - Effect of irradiation levels on internal and external citrus fruit quality
9:40 – 10:00	<b>Ooro</b> - Climate smart agriculture through cropping sequence to enhance water and nutrient use efficiency of wheat for food security	<b>Stander</b> - Insights into alternate bearing in Citrus spp.	<b>Elephant</b> - The estimation of reserve-k and k immobilization using mid infrared spectroscopy and multiple linear regressions	<b>Baloyi</b> - Effect of harvest time, dehydration plus waxing and storage temperature on non-chilling and chilling rind physiological disorders of ‘Benny’ valencia citrus fruit
10:00 – 10:20	<b>Namugwanya</b> - Nitrogen fixation and ureide production under drought conditions in low phosphorus tolerant common bean genotypes	<b>Botes</b> - ‘Nadorcott’ mandarin fruit development and the influence of 20% white shade nets thereon with emphasis on fruit quality parameters	<b>Paterson</b> - Properties of stockpiled soils on south african coal mines	<b>Olarewaju</b> - Role of canopy position on physicochemical properties of ‘Marsh’ grapefruit during non-chilling postharvest cold storage
10:20 – 10:40	<b>Lekalakala</b> - Calibration and validation of the APSIM Model to Simulate Climate Smart Practices under Dryland Maize Production: Model evaluation and application	<b>Banda</b> - Water use of ‘midnight’ valencia orchards in the winter rainfall region of south africa	<b>Kgopa</b> - Escherichia coli counts in treated wastewater and borehole water used for irrigation at university of limpopo experimental farm	<b>Griessel</b> - Reversing Initial Low Oxygen Stress (ILOS), a new way to control scald on Granny Smith.
10:40 – 11:00	TEA			

## SESSION 4 – TUESDAY 16 JANUARY 2018

Subject	Agronomy – Crop improvement	Physiology	Soil chemistry & sciences	Rural socio-economics
<b>Chairperson</b>	Dr Sanesh Ramburan	Pippa Karsen	Dr Ailsa Hardie	Dr Moses Osiru
<b>Venue</b>	<b>MegaVu</b>	<b>Smugglers</b>	<b>Ratanga Officers Club</b>	<b>Spice Island</b>
11:00 – 11:20	<b>Mkhabela</b> - Genetic diversity of selected drought tolerant wheat genotypes assessed through simple sequence repeat markers	<b>Masemola</b> - Effect of irrigation and nitrogen supply on canopy development, marketable yield and free proline content in African nightshade ( <i>Solanum retroflexum</i> )	<b>Sukati</b> - High density sludge from acid mine water neutralization in the Mpumalanga coalfields: a hazardous waste or agricultural resource?	<b>Lagerkvist</b> - Food security & resilience of crop production systems in urbanizing arid & semi-arid zones: a systematic review of the literature
11:20 – 11:40	<b>Mokgakala</b> - Illumina sequencing and characterization of methylated regions in the cactus pear ( <i>Opuntia ficus-indica</i> ) genome	<b>Nkolisa</b> - Development and evaluation of an evaporative cooling system for storage of tomatoes ( <i>Solanum lycopersicum</i> )	<b>Adams</b> - Lipid humification by soil minerals	<b>Ssemakula</b> - Bridging the extension gap: fast tracking access to improved sweetpotato varieties through schools in Uganda
11:40 – 12:00	<b>Dube</b> - Genetic variation and heritability of traits among <i>Corchorus</i> species	<b>Ngcobo</b> - Potential of pre- and postharvest illumination of cherry tomato, a climacteric fruit, to reduce the ripening period and enhance quality while maintaining shelf life	<b>Zizo</b> - Evaluating soil acidification in active cropping projects of the Eastern Cape using analytical result	<b>Mutatisse</b> - Empirical research on food supply chain management: a background of Mozambican agriculture and case studies in Japanese agriculture
12:00 – 12:20	<b>Vilane</b> - evaluation of sixteen groundnut varieties for tolerance to soil acidity in mpumalanga and kwazulu – natal provinces	<b>Buthlezi</b> - Effect of supplemented potassium fertilizer on fruit growth, development and quality of summer squash ( <i>Patty pan</i> ).	<b>Mitchell</b> - Translating soil type into millions: a sweet success story in a rural sugarcane community in South Africa	<b>Mahagayu</b> - Production challenges to wheat systems in semi arid Narok County, Kenya
12:20 – 12:40	<b>Orawu</b> - Stability of cowpea genotypes for yield potential and disease resistance in diverse agroecologies of Uganda	<b>Gatabazi</b> - Growth, yield and quality response of two ginger species to different nitrogen application rates	<b>Lupwayi</b> - Nitrogen release from decomposing legume crop residues over three subsequent crops	
12:40 – 13:25	LUNCH - Walled City			

## SESSION 5 - TUESDAY 16 JANUARY 2018

Subject	Agronomy – Crop protection	Nutrition & water management/ Crop nutrition & water/Agronomy	Horticulture crop protection	Post-harvest biology/ Agrometeorology
<b>Chairperson</b>	Prof Lum Fontem	Dr Nicky Taylor	Dr Sunette Laurie	Dr Xolani Sibozza
<b>Venue</b>	<b>MegaVu</b>	<b>Smugglers</b>	<b>Ratanga Officers Club</b>	<b>Spice Island</b>
13:25 – 13:45	<b>Jankielsohn</b> - Factors affecting the decline of russian wheat aphid ( <i>Diuraphis noxia</i> ) in wheat production areas of south africa	<b>van Vuuren</b> - Evaluating the effect of three commercial nitrogen formulations on fruit tree physiology, quality and yield of ‘Rosy Glow’ apples	<b>Dube</b> - Infectivity of nematode post-exposure to phytonematicide	<b>Mathaba</b> - Avocado ‘Hass’ fruit skin colour change conundrum: A South African fruit case study
13:45 – 14:05	<b>Njuguna</b> - Effects of stem rust and russian wheat aphid on wheat grain yield and quality of wheat in Kenya	<b>Volschenk</b> - Irrigation management of apple orchards in sandy soil in two western cape water management areas	<b>Malebe</b> - Response of nightshade plant growth to nemarioc-ag and nemarioc-al phytonematicides under field conditions	<b>Sibuyi</b> - Effect of tree girdling, harvest time and ripening temperature on skin colour development of 'Hass' avocado fruit.
14:05 – 14:25	<b>Figlan</b> - Screening for adult plant resistance to leaf rust in a newly developed wheat recombinant inbred line population	<b>Smit</b> - Water use dynamics of macadamia orchards	<b>Ntidi</b> - Amaranths: an alternative and perspective crop with special reference to nematode pests	<b>Malahlela</b> - Effect of UVASYS SO2 impregnated sheets and perforated packaging materials on quality and shelf-life of litchi cultivars
14:25 – 14:45	<b>Kamota</b> - Host status of leguminous crops towards root knot nematodes	<b>Sebati</b> - Influence of container type and positioning on the efficacy of biomuti on growth of tomato plants	<b>Makhwedzhana</b> - Resistance mechanism to <i>Meloidogyne incognita</i> race 2 in sweet potato cultivar ‘bosbok’	<b>Raphalalani</b> - Effect of processing and heat treatment on beta carotene and total phenolic content in ‘Monate’ sweet potato
14:45 – 15:05	<b>Oluwafemi</b> - First report of antennal responses of cicadulina leafhopper-vector to volatile profiles of healthy and maize streak virus diseased plants	<b>Rammone</b> - Interactive effects of location and harvesting times on physical properties of <i>Mimusops zeyheri</i> fruit	<b>Thopola</b> - Influence of priming potato planting tubers using phytonematicides solutions on nematode suppression in potato production	<b>Lodama</b> - Effect of storage on the total phenolic and flavonoid content of some sweet potato cultivars
15:05 – 15:25	<b>Sefefe</b> - Effects of Nemarioc-AG phytonematicide on growth of potato as pre-emergence application	<b>Mwije</b> - Sunburn incidence and polyphenol patterns as influenced by boron plus calcium foliar applications in ‘Cripps pink’ apple	<b>Mulandana</b> - Host-status and host-sensitivity of potato cultivars BP1 and Buffelspoort to <i>Meloidogyne javanica</i> and <i>Meloidogyne incognita</i> race 2 under greenhouse and micro plot conditions	<b>Ngcangatha</b> - The influence of extraction techniques on the chemical composition and yield of essential oils from <i>Pelargonium cv Rose</i>
15:25 – 15:45	TEA			



## SESSION 6 - TUESDAY 16 JANUARY 2018

Subject	Agronomy – Crop production	Physiology	Soil genesis, classification & mapping/Crop nutrition	Agronomy - various
<b>Chairperson</b>	Prof Sunday Oluwafemi	Dr Paul Cronje	Dr Cathy Clarke	Dr Linus Franke
<b>Venue</b>	<b>MegaVu</b>	<b>Smugglers</b>	<b>Ratanga Officers Club</b>	<b>Spice Island</b>
15:45 – 16:05	<b>Adigbo</b> - Tailoring triple crops of rice-rice-vegetable sequences in rainfed Sawah rice based technology to farmers' field condition.	<b>Laurie</b> - The influence of drought on the relationship of various parameters in sweet potato	<b>Paterson</b> - Soil Classification: a revised system for Natural Soils	<b>Mmotong Obed</b> - Use of local language words in a seasonal climate forecast ... Sepedi
16:05 – 16:25	<b>Mapumulo</b> - INTERCROPPING: Taro, cowpea and wild mustard with addition of vermicompost to improve yield	<b>Mudau</b> - The effects of various wax treatments on 'Fuji' apples stem-end micro-cracking	<b>Barichiev</b> - Evaluating soil and terrain variables in a production environment: implications for agricultural land assessment	<b>Maleka</b> - Response of nematode resistant sweet stem sorghum 'Ndendani-X1' when infected by red aphids under microplot conditions.
16:25 – 16:45	<b>Mohale</b> - Quality assessment of bush tea ( <i>Athrixia phyllicoides</i> DC.) subjected to different pruning levels	<b>Kritzinger</b> - Quantification of lenticels in Japanese plum cultivars and their effect on peel water vapour permeance	<b>Osborne</b> - Spatial variation in soil characteristics and field trial design	<b>Kola</b> - Sensitivity of Nemarioc-AL and Nemafric-BL phytonematicides on selected essential nutrients elements in leaf tissues of cowpea ( <i>Vigna unguiculata</i> ) under greenhouse conditions
16:45 – 17:05	<b>Mpai</b> - Nodulation of tropical grain legumes by bacterial symbionts from the cape fynbos, south africa	<b>Arabi</b> - Effect of phenolic compounds and seedcoat thickness of 'Hass' and 'Fuerte' avocado ( <i>Persea americana</i> Mill.) on seed germination	<b>Dinwa</b> - Development and optimisation of a technique to determine the water dispersible clay in soils	<b>Esan</b> - Evaluation of four sweet potato ( <i>Ipomea batatas</i> L.) varieties for yield and yield related components in Iwo, Osun State
17:05 – 17:25	<b>Tivana</b> - Evaluation of replacement of maize by cassava and the particles hand aggregation for poultry feed formulation	<b>Penter</b> - Progress in understanding and addressing macadamia kernel discolouration	<b>Jovanovic</b> - Sustainability of water abstraction from sand river beds for irrigation on emerging farms in the Limpopo Province	<b>Savala</b> - Physiological characteristics affecting water use efficiency and yield of inoculated soybean in southern Africa
19:00 - Late	BRAAI			

## WEDNESDAY 17 JANUARY 2018

Time	Event		Venue		
08:00 – 08:15	Registration		Ratanga Junction		
<b>PLENARY SESSION</b>					
<b>KEYNOTE ADDRESS – WALLED CITY</b>					
8:15 – 8:45	SAHSS		Prof Bhimanagouda Patil – Challenges and Opportunities for Human Health Properties of Produce		
8:45 – 9:15	SAWSS		Dr Lewis Ziska - Climate, CO2 and Weed Biology: The Good, The Bad, and the Ugly		
<b>SESSION 7 - WEDNESDAY 17 JANUARY 2018</b>					
Subject	Crop production	Agronomy, Hort production & cultivation practices	Crop modelling/ Environmental sciences	Crop protection/ Indigenous and medicinal plants	
<b>Chairperson</b>	Prof Luisa dos Santos	Dr Elli Hajari	N Jovanovic	Dr Pieter Swanepoel	
<b>Venue</b>	MegaVu	Smugglers	Ratanga Officers Club	Spice Island	
9:20 – 9:40	<b>Osborne</b> - Spatial variation, bias and experimental design in agronomic field trials: a case study of a farming systems trial in the Western Cape province of South Africa	<b>Jokazi</b> - Potato ( <i>Solanum tuberosum</i> ) yield in response to paclobutrazol application at different planting dates	<b>Mangwende</b> - Evaluation of APSIM to simulate water and nitrogen dynamics in wheat cropping systems	<b>Mwangi</b> - Reproduction of potato cyst nematodes on tissue culture potato plants/	
9:40 – 10:00	<b>Ramburan</b> - From laboratory to field – assessing the impact of tissue culture propagation on the agronomic performance of sugarcane	<b>Rabie</b> - The effect of lime application on soil ph as well as the growth and yield of queen pineapple	<b>Njeru</b> - Climate smart agriculture adaptations technologies towards drought tolerant crops on climate change resilience in Kirinyaga county	<b>Luvhengo</b> - Biocontrol of selected <i>Fusarium</i> species using medicinal plant extracts	
10:00 – 10:20	<b>Chibarabada</b> - Yield, water use and productivity of selected grain legumes in a controlled environment	<b>Hlerema</b> - Determination of the effect of paclobutrazole application on the biomass, root yield and beta-carotene content of sweet potato	<b>Rusere</b> - A participatory approach for exploring options for ecological intensification to improve food security and agricultural sustainability: A perspective of South African smallholder agriculture	<b>Olaniyi</b> - Effects of storage methods on sprouting and nutritional quality of ginger ( <i>Zingiber officinale</i> ROSC) rhizomes in different storage periods	
10:20 – 10:40	Poster Session 2		Viewing of posters 64 - 126		
10:40 – 11:00	TEA				

## SESSION 8 – WEDNESDAY 17 JANUARY 2018

Subject	Agronomy - Crop production	Indigenous and medicinal plants	Agrometeorology	Crop protection
<b>Chairperson</b>	Dr Gert Ceronio	Dr Karin Hannweg	Prof John Annandale	Prof Pathu Mashela
<b>Venue</b>	<b>MegaVu</b>	<b>Smugglers</b>	<b>Ratanga Officers Club</b>	<b>Spice Island</b>
11:00 – 11:20	<b>Seetseng</b> - Agronomic Efficiency and Partial Factor Productivity of Amaranthus tricolor L. as affected by nitrogen application rates	<b>Joko</b> - The effect of seeding depth and growing media on Aloe ferox seed germination	<b>Machakaire</b> - Eddy covariance techniques to quantify dry matter production and evapotranspiration in potato-maize system	<b>Huma</b> - Pre-emergent application effects of Nemafric-BG phytonematicide on growth of potato cultivar 'Mondial G3' and suppression of Meloidogyne javanica
11:20 – 11:40	<b>Haarhoff</b> - A global review of plant density effects on maize yield	<b>Hlatshwayo</b> - Seed germination and in vitro propagation of Aloe reitzii - an endemic and threatened ornamental species	<b>Mbangiwa</b> - Carbon dioxide and water vapour exchange over rainfed maize canopy	<b>Makwapana</b> - Efficacy of Nemarioc-AL phytonematicide as influenced by container type and position on growth of tomato plants
11:40 – 12:00	<b>Ogola</b> - Chickpea-based cropping systems for sustainable crop productivity in a changing environment	<b>Makgato</b> - Influence of harvesting time and rhizobium inoculation on primary and secondary metabolites of Cancer bush (Lessertia frutescens (L.) R.Br.).	<b>Walker</b> - Providing farmers with useful climate information	<b>Sebothoma</b> - Mean concentration stimulation point (mcsp) and sensitivity of Nemarioc-AL phytonematicide on sweet potato cultivar 'Bophelo'
12:00 – 12:20	<b>Neethling</b> - developing nitrogen fertiliser management strategies for wheat under conservation agriculture practices in the Western Cape, South Africa	<b>Nkuna</b> - Sodium tolerance in Mimusops zeyheri seedlings under chloride salinity	<b>Franke</b> - Poor farmers – poor yields: socio-economic, soil fertility and crop management indicators affecting climbing bean productivity in northern Rwanda	<b>Selomo</b> - Non-phytotoxic concentration of Nemafric-BL phytonematicide and overall sensitivity of sweet potato cultivar 'Bophelo'
12:20 – 12:40	<b>Swanepoel</b> - Nematode community structure of kikuyu-based dairy pastures	<b>Sokombela</b> - The effect of nitrogen and phosphorus application rates on chemical composition, growth and yield of Moringa oleifera	<b>Mtyobile</b> - Tillage and crop rotation effects on biomass and crop yield at Alice Jozini ecotope, Eastern Cape, South Africa	<b>Bango</b> - Overall sensitivity of tomato cv. 'Floradade' to Nemarioc-AL phytonematicide under field conditions
12:40 – 18:00	EXCURSIONS (Lunch parcels will be provided)			

## THURSDAY 18 JANUARY 2018

Time		Event		Venue	
8:00 – 08:20		Registration		Ratanga Junction	
<b>SESSION 9 - THURSDAY 18 JANUARY 2018</b>					
Subject	Crop improvement & physiology	Indigenous & medicinal plants	Agrometeorology/ Agricultural economics	Agronomy - crop protection	
<b>Chairperson</b>	Dr Juan Vorster	Dr Riana Kleynhans	Dr Johann Strauss	Annelie de Beer	
<b>Venue</b>	MegaVu	Smugglers	Ratanga Officers Club	Spice Island	
8:20 – 8:40	<b>Dyafta</b> - Rose-scented geranium ( <i>Pelargonium</i> spp.) essential oil as influenced by herbage drying and drying method	<b>Amoo</b> - African leafy vegetables as a weapon for food and nutritional security: a case of <i>Cleome gynandra</i>	<b>Labuschagne</b> - Conventional vs conservation agriculture in the Western Cape: the truth lies in statistics	<b>Visser</b> - Biological pathways of infestation by the fall armyworm and tomato leafminer	
8:40 – 9:00	<b>Mlambo</b> - Effects of fruit maturity stage and time of soaking on seed germination and crop establishment of horned melon ( <i>Cucumis metuliferus</i> e. meyeri ex. schrad).	<b>Shadung</b> - Effect of different storage conditions on Cucurbitacin A from <i>Cucumis myriocarpus</i> fruit over time	<b>Du Toit</b> - Developing nitrogen fertiliser management strategies for canola ( <i>Brassica napus</i> ) under conservation agriculture practices in the Western Cape	<b>Terefe</b> - Diversity in <i>Puccinia triticina</i> on wheat and triticale in South Africa	
9:20 – 9:40	<b>Dada</b> - Effects of different rates of poultry manure and npk 15-15-15 fertilizer on growth and yield of sunflower	<b>Mabotja</b> - Nutritional value and bioactive property of spineless cactus pear	<b>Seetseng</b> - Combined use of synthetic nitrogen and vermicompost as a strategy for reducing negative soil nutrient imbalance in vegetable production	<b>Moremi</b> - Response of tomato plant growth to dried crude extracts of <i>Kleinia longiflora</i>	
9:40 – 10:00	<b>MacAlister</b> - Photosynthesis and chlorophyll concentrations in rooibos grown under high temperatures in the field	<b>Hannweg</b> - The Warburgia Story: inter-disciplinary approaches addressing extinction concerns	<b>Mbangcolo</b> - Effect of soil and foliar applied nitrogen topdressings on grain yields and quality parameters of spring wheat ( <i>Triticum aestivum</i> L.)	<b>Mokhoelele</b> - Nemafric-BL phytopesticide as alternative to synthetic insecticide in the management of <i>Pseudococcus citri</i> on <i>Mimosa zeyheri</i>	
10:00 – 10:20	<b>Dada</b> - Performance of upland rice ( <i>Oryza sativa</i> L.) as influenced by compost, npk fertilizer and nitrogen fixed by cowpea	<b>Mpambani - Cis-</b> and trans-Thujone compounds found in African wormwood ( <i>Artemisia afra</i> ) in different agro-climatic zones of the Eastern Cape, South Africa	<b>Wutu</b> - The effect of drying methods and storage on nitrogen composition of top soil samples at Døhne Agro-Blocks, Eastern Cape, South Africa	<b>Madaure</b> - Influence of Nemafric-AL phytonematicide on survival of entomopathogenic nematode <i>Steinernema feltiae</i>	
10:20 – 10:40	TEA				

## SESSION 10 – THURSDAY 18 JANUARY 2018

Subject	Agronomy - Crop physiology	Horticulture	Agrometeorology/ Agricultural economics	Biotechnology, breeding & propagation
<b>Chairperson</b>	Dr Elmarie van der Watt	Dr Zelda Bijzet	Prof Sue Walker	Louisa Blomerus
<b>Venue</b>	<b>MegaVu</b>	<b>Smugglers</b>	<b>Ratanga Officers Club</b>	<b>Spice Island</b>
10:40 – 11:00	<b>Amoo</b> - Antifungal activity of medicinal plant extracts against Fusarium species: alternative bio-pesticides for smallholder farmers	<b>Maila</b> - Accumulation of proanthocyanidin concentration levels in Cleome gynandra leafy vegetable	<b>Wanderi</b> - Experience on integrated seed system approach in Central and Eastern Kenya	<b>Mabirimisa</b> - The effect of long-term storage temperatures on pollen viability and germination of four litchi (Litchi chinensis sonn) cultivars
11:00 – 11:20	<b>Mabhaudhi</b> - Water use and water use efficiency of maize landrace-bambara groundnut-dry bean intercrop system	<b>Poly-Mbah</b> - Effects of poultry manure rates on some growth attributes of cucumber in Owerri, South Eastern Nigeria	<b>Proscovia</b> - Does market production affect technical efficiency? A food-cash crop in a subsistence farming system in Western Uganda	<b>Bijzet</b> - Cultivar Evaluation relying on genotype main effect vs GxE analysis for “Valencia” yield and quality
11:20 – 11:40	<b>Kibido</b> - Influence of drought on symbiotic performance during soybean (Glycine max) nodule development	<b>Esan</b> - Effects of organic and inorganic fertilizers on garden eggplant (Solanum melongena)	<b>Laurie</b> - The food value chain environment for incorporating orange-fleshed sweet potato in the local diet	<b>Crosby</b> - 21st Century melon breeding
11:40 – 12:00	<b>Katengeza</b> - Performance of drought tolerant maize varieties under rainfall stress in Malawi	<b>Le Roux</b> - Xylem functionality in developing fruitlets of different apple cultivars	<b>Olatidoye</b> - Development and evaluation of ready to eat (RTE) extruded snack using wheat-coconut composite flour	<b>Hajari</b> - Molecular characterisation of litchi
12:00 – 12:20	<b>Akuja</b> - Rhizobial specificity and nodulation in legumes under drought conditions in the semi-arid county of Kitui in lower Eastern Kenya	<b>Makonya</b> - Physiological traits for identifying drought tolerant genotypes in Chickpea (Cicer arietium L.; Fabacea)	<b>Osiru</b> - Opportunities for a knowledge led development strategy for Africa: RUFORUM's 2030 Strategy	<b>Karsen</b> - Rooting as affected by the biochemical profile of honeybush (Cyclopia spp.) cuttings
12:20 – 12:40	<b>Ahmed</b> - Gametoclonal variation in Egyptian bread wheat (Triticum aestivum l.)			<b>Gathaara</b> - Farmers' knowledge and perceptions of genetically modified (GM) cassava in Kenya
12:40 – 13:25	LUNCH			



13:25 – 14:00		WALLED CITY - SACNASP
14:00-14:15	SAPSSC	all SASC. SSSSA. SASHS and SASWS members
14:15 – 14:45	TEA	

<b>ANNUAL GENERAL MEETING</b>					
<b>14:45 – 16:00</b>	SASCP – MegaVu	SASHS – Smugglers	SSSSA – Ratanga Officers Club	SAWSS – Spice Island	ACSS – Walled City
19:00 – Late	GALA DINNER – WALLED CITY				

# ORAL PRESENTERS

Surname	Initials	Abstract-title	Abstract-category	Session	Venue
Adams	A.R.	Lipid humification by soil minerals	Soil chemistry	Session 4	Ratanga Officers Club
Adigbo	S.O.	Tailoring triple crops of rice-rice-vegetable sequences in rainfed Sawah rice based technology to farmers' field condition.	Agronomy	Session 6	MegaVu
Ahmed	K.Z.	Gametoclonal variation in Egyptian bread wheat ( <i>Triticum aestivum</i> L.)	Crop genetics and biotechnology	Session 10	MegaVu
Akuja	TE	Rhizobial specificity and nodulation in legumes under drought conditions in the semi-arid county of Kitui in lower Eastern Kenya	Agricultural microbiology	Session 10	MegaVu
Allemann	J.	Evaluation of metham sodium for the control of volunteer potatoes	Weed management	Session 1	Spice Island
Allemann	I.	Impact of drought on the allelopathic effects of Amaranth	Weeds, crops and herbicides	Session 2	Spice Island
Amoo	S.O.	African leafy vegetables as a weapon for food and nutritional security: a case of <i>Cleome gynandra</i>	Indigenous and medicinal plants	Session 9	Smugglers
Amoo	S.O.	Antifungal activity of medicinal plant extracts against <i>Fusarium</i> species: alternative bio-pesticides for smallholder farmers	Agricultural chemistry	Session 10	MegaVu
Arabi	M.A.	Effect of phenolic compounds and seedcoat thickness of 'Hass' and 'Fuerte' avocado ( <i>Persea americana</i> Mill.) on seed germination	Physiology	Session 6	Smugglers
Baloyi	R.G.	Effect of harvest time, dehydration plus waxing and storage temperature on non-chilling and chilling rind physiological disorders of 'Benny' valencia citrus fruit	Post-harvest biology	Session 3	Spice Island
Banda	M.	Water use of 'midnight' valencia orchards in the winter rainfall region of South Africa	Physiology	Session 3	Smugglers
Bango	H.	Overall sensitivity of tomato cv. 'Floradade' to Nemarioc-AL phytonematicide under field conditions	Crop protection	Session 8	Spice Island
Barichiev	K.R.	Evaluating soil and terrain variables in a production environment: implications for agricultural land assessment	Soil genesis, classification & mapping	Session 6	Ratanga Officers Club

Bertling	I.	Effect of moringa leaf extract on growth and development of swiss chard and parsley	Hort production & cultivation practices	Session 2	Smugglers
Bijzet	Z.	Cultivar Evaluation relying on genotype main effect vs GXE analysis for "Valencia" yield and quality	Biotechnology, breeding & propagation	Session 10	Spice Island
Botes	J.	'Nadorcott' mandarin fruit development and the influence of 20% white shade nets thereon with emphasis on fruit quality parameters	Physiology	Session 3	Smugglers
Brown	R.	The impact of permanent 20% white shade netting on the vegetative/ reproductive balance of 'Nadorcott' mandarin	Hort production & cultivation practices	Session 1	Smugglers
Buthelezi	S.T.	Effect of supplemented potassium fertilizer on fruit growth, development and quality of summer squash (patty pan).	Physiology	Session 4	Smugglers
Cameron	A.	The use of scanning electron microscopy and wavelength dispersive x-ray spectroscopy to quantify calcium uptake and distribution in apple white roots during winter	Hort production & cultivation practices	Session 1	Smugglers
Campbell	P.L.	Encouraging integrated weed management in the SA sugar industry	Weed management	Session 1	Spice Island
Chibarabada	T.P.	Yield, water use and productivity of selected grain legumes in a controlled environment	Crop production	Session 7	MegaVu
Chichongue	O.J.	Effects of tillage practices and cropping systems on maize grain yield in Mozambique	Agronomy	Session 2	MegaVu
Cronje	P.J.R.	Effect of irradiation levels on internal and external citrus fruit quality	Post-harvest biology	Session 3	Spice Island
Crosby	K.M.C	21st Century melon breeding	Biotechnology, breeding & propagation	Session 10	Spice Island
Dada	O.A.	Effects of different rates of poultry manure and NPK 15-15-15 fertilizer on growth and yield of sunflower	Crop improvement and physiology	Session 9	MegaVu
Dada	O.A.	Performance of upland rice ( <i>Oryza sativa</i> L.) as influenced by compost, NPK fertilizer and nitrogen fixed by cowpea	Crop improvement and physiology	Session 9	MegaVu
Dinwa	S.	Development and optimisation of a technique to determine the water dispersible clay in soils	Soil genesis, classification & mapping	Session 6	Ratanga Officers Club
Du Plessis	H.M.	An electronic decision support system to determine the site-specific fitness-for-use of irrigation water	Soil technology	Session 3	Ratanga Officers Club

Du Toit	E.	Developing nitrogen fertiliser management strategies for canola ( <i>Brassica napus</i> ) under conservation agriculture practices in the western cape	Agrometeorology	Session 9	Ratanga Officers Club
Dube	S.P.	Genetic variation and heritability of traits among <i>Corchorus</i> species	Agronomy	Session 4	MegaVu
Dube	Z.P.	Infectivity of nematode post-exposure to phytonematicide	Hort crop protection	Session 5	Ratanga Officers Club
Dunjana	N.	Opportunities for soil fertility management in a small holder maize-tobacco farming system. A case of Svosve communal area, Zimbabwe.	Agronomy	Session 2	MegaVu
Dyafta	V.	Rose-scented geranium ( <i>Pelargonium</i> spp.) essential oil as influenced by herbage drying and drying method	Crop improvement and physiology	Session 9	MegaVu
Elephant	D.E.	The estimation of reserve-K and K immobilization using mid infrared spectroscopy and multiple linear regressions	Soil technology	Session 3	Ratanga Officers Club
Esan	V.I.	Evaluation of four sweet potato ( <i>Ipomea batatas</i> L.) varieties for yield and yield related components in Iwo, Osun State.	Crop genetics and biotechnology	Session 6	Spice Island
Esan	V.I.	Effects of organic and inorganic fertilizers on garden eggplant ( <i>Solanum melongena</i> )	Horticulture	Session 10	Smugglers
Ferreira	M.I.	The evaluation of inter row cover crops for weed suppression in rooibos production systems	Weed management	Session 1	Spice Island
Ferreira	M.I.	Sustainable weed management options for Paterson's Curse ( <i>Echium plantagineum</i> L.) suppression: preliminary results	Weed management	Session 1	Spice Island
Figlan	S.	Screening for adult plant resistance to leaf rust in a newly developed wheat recombinant inbred line population	Agronomy	Session 5	MegaVu
Fourie	J.C.	Cover crop performance in an apple orchard	Weed management	Session 1	Spice Island
Franke	A.C.	Poor farmers – poor yields: socio-economic, soil fertility and crop management indicators affecting climbing bean productivity in northern Rwanda	Agrometeorology	Session 8	Ratanga Officers Club
Gatabazi	A.	Growth, yield and quality response of two ginger species to different nitrogen application rates	Physiology	Session 4	Smugglers
Gathaara	V.N.	Farmers' knowledge and perceptions of genetically modified (GM) cassava in Kenya	Crop genetics and biotechnology	Session 10	Spice Island

Gobozi	T.K.S.	Evaluation of organic smallholder farmer soil amendment practices on soil fertility, broccoli yields and mineral nutrients	Soil fertility	Session 2	Ratanga Officers Club
Griessel	H.M.	Reversing Initial Low Oxygen Stress (ILOS), a new way to control scald on Granny Smith.	Post-harvest biology	Session 3	Spice Island
Haarhoff	S.J.	A global review of plant density effects on maize yield	Crop production	Session 8	MegaVu
Hajari	E.	Molecular characterisation of litchi	Biotechnology, breeding & propagation	Session 10	Spice Island
Hannweg	K.	The Warburgia Story: inter-disciplinary approaches addressing extinction concerns	Indigenous and medicinal plants	Session 9	Smugglers
Hlatshwayo	N.A.	Seed germination and in vitro propagation of Aloe reitzii - an endemic and threatened ornamental species	Indigenous and medicinal plants	Session 8	Smugglers
Hlerema	I.N.	Determination of the effect of paclobutrazole application on the biomass, root yield and beta-carotene content of sweet potato	Crop production	Session 7	Smugglers
Huma	T.I.	Pre-emergent application effects of Nemafric-BG phytonematicide on growth of potato cultivar 'Mondial G3' and suppression of Meloidogyne javanica	Crop protection	Session 8	Spice Island
Huma	J.K.	Effect of leaf harvesting frequency on yield parameters of four swiss chard (Beta vulgaris) cultivars	Hort production & cultivation practices	Session 2	Smugglers
J.V.Vuuren	L.	Evaluating the effect of three commercial nitrogen formulations on fruit tree physiology, quality and yield of 'Rosy Glow' apples	Nutrition & water management	Session 5	Smugglers
Jankielsohn	A.	Factors affecting the decline of Russian wheat aphid (Diuraphis noxia) in wheat production areas of South Africa	Agronomy	Session 5	MegaVu
Jokazi	K.B.	Potato (Solanum tuberosum) yield in response to paclobutrazol application at different planting dates	Hort production & cultivation practices	Session 7	Smugglers
Joko	L.B.	The effect of seeding depth and growing media on Aloe ferox seed germination	Indigenous and medicinal plants	Session 8	Smugglers
Jovanovic	N.	Sustainability of water abstraction from sand river beds for irrigation on emerging farms in the Limpopo province	Crop nutrition & water	Session 6	Ratanga Officers Club
Kamota	A.K.	Host status of leguminous crops towards root knot nematodes	Agronomy	Session 5	MegaVu



Karsen	P.A.	Rooting as affected by the biochemical profile of honeybush ( <i>Cyclopia</i> spp.) cuttings	Biotechnology, breeding & propagation	Session 10	Spice Island
Katengeza	S.P.	Performance of drought tolerant maize varieties under rainfall stress in Malawi	Agricultural economics	Session 10	MegaVu
Kgopa	P.M.	<i>Escherichia coli</i> counts in treated wastewater and borehole water used for irrigation at University of Limpopo experimental farm	Soil technology	Session 3	Ratanga Officers Club
Kibido	T.R.	Influence of drought on symbiotic performance during soybean ( <i>Glycine max</i> ) nodule development	Crop physiology	Session 10	MegaVu
Kola	E	Sensitivity of Nemarioc-AL and Nemafric-BL phytonematicides on selected essential nutrients elements in leaf tissues of cowpea ( <i>Vigna unguiculata</i> ) under greenhouse conditions	Crop protection	Session 6	Spice Island
Kritzinger	I.	Quantification of lenticels in Japanese plum cultivars and their effect on peel water vapour permeance	Physiology	Session 6	Smugglers
Kunene	E.N.	Effects of organic and inorganic fertilisers on the growth and yield of amaranth ( <i>Amaranthus hybridus</i> L.)	Agronomy	Session 1	MegaVu
Labuschagne	J.	Conventional vs conservation agriculture in the Western Cape: the truth lies in statistics	Agrometeorology	Session 9	Ratanga Officers Club
Lagerkvist	C.J.	Food security & resilience of crop production systems in urbanizing arid & semi-arid zones: a systematic review of the literature	Rural socio-economics	Session 4	Spice Island
Laurie	R.N.	The influence of drought on the relationship of various parameters in sweet potato	Physiology	Session 6	Smugglers
Laurie	S.M.	The food value chain environment for incorporating orange-fleshed sweet potato in the local diet	Rural development	Session 10	Ratanga Officers Club
Lebea	T.J.	Tomato yield and early blight incidence in response to cultivar and irrigation management practices in the Giyani municipality	Weeds, crops and herbicides	Session 2	Spice Island
Lekalakala	R.G.	Calibration and validation of the APSIM Model to simulate climate smart practices under dryland maize production: Model evaluation and application	Agronomy	Session 3	MegaVu
Le Roux	E	Xylem functionality in developing fruitlets of different apple cultivars	Horticulture physiology	Session 10	Smugglers
Leygonie	I.R.	Once-off tillage before canola in conservation agriculture: the facts	Soil physics	Session 1	Ratanga Officers Club

Lodama	K.	Effect of storage on the total phenolic and flavonoid content of some sweet potato cultivars	Agrometeorology	Session 5	Spice Island
Lötze	E.	Calcium dynamics of reproductive apple bud tissues during dormancy in the Western Cape, South Africa	Hort production & cultivation practices	Session 1	Smugglers
Lukashe	N.S.	Inoculation of fly ash amended vermicompost with phosphate solubilizing bacteria ( <i>Pseudomonas fluorescens</i> ) improves vermicompost degradation, nutrient release and biological activity	Soil fertility	Session 2	Ratanga Officers Club
Lupwayi	N.Z.	Nitrogen release from decomposing legume crop residues over three subsequent crops	Soil sciences	Session 4	Ratanga Officers Club
Luvhengo	M.	Biocontrol of selected <i>Fusarium</i> species using medicinal plant extracts	Indigenous and medicinal plants	Session 7	Spice Island
Mabhaudhi	T.	Water use and water use efficiency of maize landrace-bambara groundnut-dry bean intercrop system	Crop physiology	Session 10	MegaVu
Mabirimisa	A.	The effect of long-term storage temperatures on pollen viability and germination of four litchi ( <i>Litchi chinensis</i> sonn) cultivars	Biotechnology, breeding & propagation	Session 10	Spice Island
Mabotja	M.B.	Nutritional value and bioactive property of spineless cactus pear	Indigenous and medicinal plants	Session 9	Smugglers
Macalister	D.	Photosynthesis and chlorophyll concentrations in rooibos grown under high temperatures in the field	Crop improvement and physiology	Session 9	MegaVu
Machakaire	A.T.B	Eddy covariance techniques to quantify dry matter production and evapotranspiration in potato-maize system	Agrometeorology	Session 8	Ratanga Officers Club
Madaure	J.T.	Influence of Nemarioc-ALphytonematicide on survival of entomopathogenic nematode <i>Steinernema feltiae</i>	Crop protection	Session 9	Spice Island
Mahagayu	M.C.	Production challenges to wheat systems in semi-arid Narok County, Kenya	Rural socio-economics	Session 4	Spice Island
Mahlangu	R.I.S.	Effect of different levels of nitrogen application and plant density on yield of basil and rocket	Agronomy	Session 1	MegaVu
Maila	M.Y.	Accumulation of proanthocyanidin concentration levels in <i>Cleome gynandra</i> leafy vegetable	Horticulture	Session 10	Smugglers
Makgato	M.J.	Influence of harvesting time and rhizobium inoculation on primary and secondary metabolites of Cancer bush ( <i>Lessertia frutescens</i> (L.) R.Br.)	Indigenous and medicinal plants	Session 8	Smugglers

	M.M.	Resistance mechanism to <i>Meloidogyne incognita</i> race 2 in sweet potato cultivar 'Bosbok'	Hort crop protection	Session 5	Ratanga Officers Club
Makonya	G.M.	Physiological traits for identifying drought tolerant genotypes in Chickpea ( <i>Cicer arietium</i> L.; Fabacea)	Agronomy	Session 10	Smugglers
Makwapana	T.	Efficacy of Nemarioc-AL phytonematicide as influenced by container type and position on growth of tomato plants.	Crop protection	Session 8	Spice Island
Malahlela	H.K.	Effect of Uvasys SO <sub>2</sub> impregnated sheets and perforated packaging materials on quality and shelf-life of litchi cultivars	Post-harvest biology	Session 5	Spice Island
Malebe	A.L.	Response of nightshade plant growth to Nemarioc-AG and Nemarioc-AL phytonematicides under field conditions	Hort crop protection	Session 5	Ratanga Officers Club
Maleka	K.G.	Response of nematode resistant sweet stem sorghum 'Ndendani-X1' when infected by red aphids under microplot conditions.	Indigenous and medicinal plants	Session 6	Spice Island
Mangwende	T.E.	Evaluation of APSIM to simulate water and nitrogen dynamics in wheat cropping systems	Crop modelling	Session 7	Ratanga Officers Club
Mapumulo	T.C.	Intercropping: Taro, cowpea and wild mustard with addition of vermicompost to improve yield	Agronomy	Session 6	MegaVu
Mapumulo	T.C.	Subsistence farmers in Msinga Municipality use conservation agriculture to mitigate climate change in Kwazulu Natal	Agronomy	Session 3	MegaVu
Masemola	M.C.	Effect of irrigation and nitrogen supply on canopy development, marketable yield and free proline content in African nightshade ( <i>Solanum retroflexum</i> )	Physiology	Session 4	Smugglers
Masowa	M.M.	Assessment of phyto-toxicity and physico-chemical properties of co-composted winery solid waste using effective microorganisms inoculant	Soil fertility	Session 2	Ratanga Officers Club
Matafeni	N.	Rooting of rose-scented geranium cuttings as affected by growing media and rooting hormones	Hort production & cultivation practices	Session 2	Smugglers
Matafeni	N.	Effect of healing period on rooting response of rose-scented geranium cuttings	Hort production & cultivation practices	Session 2	Smugglers
Mathaba	N.	Avocado 'Hass' fruit skin colour change conundrum: A South African fruit case study	Post-harvest biology	Session 5	Spice Island

Matlabane	M.	Soil fertility status of Eastern Cape soils analyzed at Dohne Agricultural Development Institute, Eastern Cape Province of South Africa	Agricultural chemistry	Session 2	Ratanga Officers Club
Mbangcolo	M.M.	Effect of soil and foliar applied nitrogen topdressings on grain yields and quality parameters of spring wheat ( <i>Triticum aestivum</i> L.)	Agrometeorology	Session 9	Ratanga Officers Club
Mbangiwa	N.C.	Carbon dioxide and water vapour exchange over rain-fed maize canopy	Agrometeorology	Session 8	Ratanga Officers Club
Migeri	S.	Human urine and its derived products as fertilizers for crop production	Agronomy	Session 1	MegaVu
Mitchell	F.J.	Translating soil type into millions: a sweet success story in a rural sugarcane community in South Africa	Soil sciences	Session 4	Ratanga Officers Club
Mkhabela	S.S.	Genetic diversity of selected drought tolerant wheat genotypes assessed through simple sequence repeat markers	Agronomy	Session 4	MegaVu
Mlambo	N.	Effects of fruit maturity stage and time of soaking on seed germination and crop establishment of horned melon ( <i>Cucumis metuliferus</i> e. Mey. Ex. Schrad).	Crop improvement and physiology	Session 9	MegaVu
Mmotong Obed	M.O.	Use of local language words in a seasonal climate forecast ... Sepedi	Agrometeorology	Session 6	Spice Island
Mohale	K.C.	Quality assessment of bush tea ( <i>Athrixia phylloides</i> DC.) subjected to different pruning levels	Agronomy	Session 6	MegaVu
Mokgakala	K.	Illumina sequencing and characterization of methylated regions in the cactus pear ( <i>Opuntia ficus-indica</i> ) genome	Agronomy	Session 4	MegaVu
Mokhoelele	F.	Nemafric-BL phytopesticide as alternative to synthetic insecticide in the management of <i>Pseudococcus citri</i> on <i>Mimusops zeyheri</i>	Crop protection	Session 9	Spice Island
Moremi	M.G.	Response of tomato plant growth to dried crude extracts of <i>Kleinia longiflora</i>	Crop protection	Session 9	Spice Island
Motholo	L.F.	Impact of insect host-background on virulence of <i>Beauveria bassiana</i> (Hypocreales: Cordycipitaceae) to Russian wheat aphid	Weeds, crops and herbicides	Session 2	Spice Island
Mpai	T.	Nodulation of tropical grain legumes by bacterial symbionts from the Cape fynbos, South Africa	Agronomy	Session 6	MegaVu
Mpambani	B.	Cis- and trans-Thujone compounds found in African wormwood ( <i>Artemisia afra</i> ) in different agro-climatic zones of the Eastern Cape, South Africa	Indigenous and medicinal plants	Session 9	Smugglers

Mphahlele	G.H.	Aggressiveness of <i>Alternaria solani</i> isolates on two susceptible tomato cultivars	Agrometeorology	Session 1	Spice Island
Mtyobile	M.	Tillage and crop rotation effects on biomass and crop yield at Alice Jozini ecotope, Eastern Cape, South Africa	Agrometeorology	Session 8	Ratanga Officers Club
Mudau	M.J.	The effects of various wax treatments on 'Fuji' apples stem-end micro-cracking	Physiology	Session 6	Smugglers
Mulandana	N.K.	Host-status and host-sensitivity of potato cultivars BP1 and Buffelspoort to <i>Meloidogyne javanica</i> and <i>Meloidogyne incognita</i> race 2 under greenhouse and micro plot conditions	Hort crop protection	Session 5	Ratanga Officers Club
Mutatisse	A.	Empirical research on food supply chain management: a background of Mozambican agriculture and case studies in Japanese agriculture	Rural socio-economics	Session 4	Spice Island
Muzangwa	L.	Influence of tillage, crop rotation and residue management on soil microbial biomass carbon and selected soil enzyme activities in two ecotopes of the Eastern Cape Province.	Soil biology	Session 2	Ratanga Officers Club
Mwangi	J.M.	Reproduction of potato cyst nematodes on tissue culture potato plants	Agricultural microbiology	Session 7	Spice Island
Mwije	A.	Investigating mode of action by which boron plus calcium foliar applications reduce apple sunburn	Hort production & cultivation practices	Session 1	Smugglers
Mwije	A.	Sunburn incidence and polyphenol patterns as influenced by boron plus calcium foliar applications in 'Cripps pink' apple	Horticulture	Session 5	Smugglers
Mzimela	N.P.	An investigation into the combined use of an entomopathogenic fungus and botanical insecticide for control of the Russian wheat aphid on wheat	Weeds, crops and herbicides	Session 2	Spice Island
Namugwanya	M.	Nitrogen fixation and ureide production under drought conditions in low phosphorus tolerant common bean genotypes	Agronomy	Session 3	MegaVu
Ndayisaba	P.C.	Comparative effect of desmodium on maize growth and yield after fifteen years of experiments	Agronomy	Session 2	MegaVu
Neethling	P.J.	Developing nitrogen fertiliser management strategies for wheat under conservation agriculture practices in the Western Cape, South Africa	Crop production	Session 8	MegaVu

Netshithuthuni	N.	Effect of Disease Suppressive Compost combined with solarised soil on Onion white rot incidence, severity and plant growth	Agronomy	Session 1	MegaVu
Ngcangatha	B.A.	The influence of extraction techniques on the chemical composition and yield of essential oils from Pelargonium cv rose	Horticulture	Session 5	Spice Island
Ngcobo	B.L.	Potential of pre- and postharvest illumination of cherry tomato, a climacteric fruit, to reduce the ripening period and enhance quality while maintaining shelf life	Physiology	Session 4	Smugglers
Nguenha	R.	Effectiveness of polyethylene container and airtight bags on maize grain storage for smallholder farmers in Mozambique	Agronomy	Session 2	MegaVu
Nienaber	H.	Tolerance of South African wheat cultivars to post-emergence herbicide application	Weeds, crops and herbicides	Session 2	Spice Island
Njeru	P.N.M.	Climate smart agriculture adaptations technologies towards drought tolerant crops on climate change resilience in Kirinyaga county.	Environmental sciences	Session 7	Ratanga Officers Club
Njuguna	M.N.	Effects of stem rust and Russian wheat aphid on wheat grain yield and quality of wheat in Kenya	Agronomy	Session 5	MegaVu
Nkolisa	N.S.	Development and evaluation of an evaporative cooling system for storage of tomatoes ( <i>Solanum lycopersicum</i> )	Physiology	Session 4	Smugglers
Nkuna	T.S.	Sodium tolerance in <i>Mimusops zeyheri</i> seedlings under chloride salinity	Indigenous and medicinal plants	Session 8	Smugglers
Ntidi	K.N.	Amaranths: an alternative and perspective crop with special reference to nematode pests	Hort crop protection	Session 5	Ratanga Officers Club
Nyambo	P.	Soil aggregation under a maize based conservation agriculture system in the central eastern Cape Province in South Africa	Soil physics	Session 2	Ratanga Officers Club
Odedina	J.N.	Varying staking length in yam production and effect on growth and yield of white yam varieties	Agronomy	Session 1	MegaVu
Ogola	J.B.O.	Chickpea-based cropping systems for sustainable crop productivity in a changing environment	Crop production	Session 8	MegaVu
Olaniyi	J.O.	Effects of storage methods on sprouting and nutritional quality of ginger ( <i>Zingiber officinale</i> Roscoe) rhizomes in different storage periods	Horticulture	Session 7	Spice Island



Olarewaju	O.O.	Role of canopy position on physicochemical properties of 'Marsh' grapefruit during non-chilling postharvest cold storage	Post-harvest biology	Session 3	Spice Island
Olatidoeye	O.P.J.	Development and evaluation of ready to eat (RTE) extruded snack using wheat-coconut composite flour	Post harvest handling and food sciences	Session 10	Ratanga Officers Club
Oluwafemi	S.	First report of antennal responses of Cicadulina leafhopper-vector to volatile profiles of healthy and maize streak virus diseased plants	Agronomy	Session 5	MegaVu
Oluwafemi	S.	Preliminary results on the chemical ecology of maize, maize streak virus and Cicadulina vector interactions	Agronomy	Session 2	MegaVu
Ooro	P.A.	Climate smart agriculture through cropping sequence to enhance water and nutrient use efficiency of wheat for food security	Agronomy	Session 3	MegaVu
Orawu	M.	Stability of cowpea genotypes for yield potential and disease resistance in diverse agroecologies of Uganda	Agronomy	Session 4	MegaVu
Orek	C.O.	Rhizobial specificity and nodulation in legumes under drought conditions in the semi-arid county of Kitui in lower Eastern Kenya	Agricultural microbiology	Session 11	Spice Island
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Osborne	D.G.	Spatial variation in soil characteristics and field trial design	Soil genesis, classification & mapping	Session 6	Ratanga Officers Club
Osiru	M	Opportunities for a knowledge led development strategy for Africa: RUFORUM's 2030 Strategy	Rural socio-economics	Session 10	Ratanga Officers Club
Paterson	D.G.	Soil Classification: a revised system for Natural Soils	Soil genesis, classification & mapping	Session 6	Ratanga Officers Club
Paterson	D.G.	Properties of stockpiled soils on South African coal mines	Soil technology	Session 3	Ratanga Officers Club
Penter	M.G.	Progress in understanding and addressing macadamia kernel discolouration	Physiology	Session 6	Smugglers
Poly-Mbah	C.P.	Effects of poultry manure rates on some growth attributes of cucumber in Owerri, South Eastern Nigeria.	Horticulture	Session 10	Smugglers
Prins	M.D.	The impact of 20% white shade netting on the microclimate of a 'Nadorcott mandarin' orchard and the tree physiology	Hort production & cultivation practices	Session 1	Smugglers

Proscovia	R.	Does market production affect technical efficiency? A food-cash crop in a subsistence farming system in western Uganda	Agricultural economics	Session 10	Ratanga Officers Club
Pulela	L.B.	Yield and quality of sweet melon cultivars grown in hydroponics system	Hort production & cultivation practices	Session 2	Smugglers
Rabie	E.C.	The effect of lime application on soil pH as well as the growth and yield of queen pineapple	Hort production & cultivation practices	Session 7	Smugglers
Ramburan	S.	From laboratory to field – assessing the impact of tissue culture propagation on the agronomic performance of sugarcane	Crop production	Session 7	MegaVu
Rammone	M.L.	Interactive effects of location and harvesting times on physical properties of <i>Mimusops zeyheri</i> fruit	Horticulture	Session 5	Smugglers
Raphalalani	T.M.	Effect of processing and heat treatment on beta carotene and total phenolic content in 'Monate' sweet potato	Post-harvest biology	Session 5	Spice Island
Rusere	F.	A participatory approach for exploring options for ecological intensification to improve food security and agricultural sustainability: A perspective of South African smallholder agriculture	Crop production	Session 7	Ratanga Officers Club
Savala	C.E.N.	Physiological characteristics affecting water use efficiency and yield of inoculated soybean in Southern Africa	Water sciences	Session 6	Spice Island
Sebati	M.L.	Influence of container type and positioning on the efficacy of biomuti on growth of tomato plants	Horticulture	Session 5	Smugglers
Sebothoma	E.M.	Mean concentration stimulation point (MCSP) and sensitivity of Nemarioc-AL phytonematicide on sweet potato cultivar 'Bophelo'	Crop protection	Session 8	Spice Island
Seetseng	K.A.	Combined use of synthetic nitrogen and vermicompost as a strategy for reducing negative soil nutrient imbalance in vegetable production	Agrometeorology	Session 9	Ratanga Officers Club
Seetseng	K.A.	Agronomic efficiency and partial factor productivity of <i>Amaranthus tricolor</i> L. as affected by nitrogen application rates	Crop production	Session 8	MegaVu
Sefefe	S.K.	Effects of Nemarioc-AG phytonematicide on growth of potato as pre-emergence application	Agronomy	Session 5	MegaVu

Selomo	M.D.	Non-phytotoxic concentration of Nemafric® BL phytonematicide and overall sensitivity of sweet potato cultivar 'Bophelo'	Crop protection	Session 8	Spice Island
Shadung	K.G.	Effect of different storage conditions on Cucurbitacin A from Cucumis myriocarpus fruit over time	Indigenous and medicinal plants	Session 9	Smugglers
Shereni	C.	The effect of biostimulants on establishment of Nadorcott citrus trees	Hort production & cultivation practices	Session 1	Smugglers
Sibuyi	H.	Effect of tree girdling, harvest time and ripening temperature on skin colour development of 'Hass' avocado fruit.	Post-harvest biology	Session 5	Spice Island
Smit	T.G.	Water use dynamics of macadamia orchards	Nutrition & water management	Session 5	Smugglers
Sokombela	A.	The effect of nitrogen and phosphorus application rates on chemical composition, growth and yield of Moringa oleifera	Indigenous and medicinal plants	Session 8	Smugglers
Ssemakula	G.	Bridging the extension gap: fast tracking access to improved sweet potato varieties through schools in Uganda	Rural socio-economics	Session 4	Spice Island
Stander	O.P.J.	Insights into alternate bearing in Citrus spp.	Physiology	Session 3	Smugglers
Stofberg	A.	The effect of irrigation on the performance of young apple trees in newly established orchards.	Soil physics	Session 1	Ratanga Officers Club
Sukati	B.H.	High density sludge from acid mine water neutralization in the Mpumalanga coalfields: a hazardous waste or agricultural resource?	Soil chemistry	Session 4	Ratanga Officers Club
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Tchiaze	A.I.	Influence of nitrogen sources and plant growth-promoting rhizobacteria inoculation on growth, crude fiber and nutrient uptake in squash (Cucurbita moschata duchesne ex Poir.) plants	Agronomy	Session 1	MegaVu
Terefe	T.G.	Diversity in Puccinia triticina on wheat and triticale in South Africa	Crop protection	Session 9	Spice Island
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Thopola	T.E.	Influence of priming potato planting tubers using phytonematicides solutions on nematode suppression in potato production	Hort crop protection	Session 5	Ratanga Officers Club

Tivana	L.D.	Evaluation of replacement of maize by cassava and the particles hand aggregation for poultry feed formulation	Agronomy	Session 6	MegaVu
Van Antwerpen	R.	Electro-magnetic induction: can it be used to identify the depth of abrupt change in clay content?	Soil physics	Session 1	Ratanga Officers Club
Van Der Loo	A.M.J	Pre breed screening for Naringin and Naringenin content in Grapefruit	Physiology	Session 3	Smugglers
Van Schalkwyk	R.	Soil water balance and root development in rooibos plantations under Clanwilliam field conditions	Soil physics	Session 1	Ratanga Officers Club
Van Vuuren	J	Evaluating the effect of three commercial nitrogen formulations on fruit tree physiology, quality and yield of 'Rosy Glow' apples	Nutrition & water management	Session 5	Smugglers
Vilane	N.M.	Evaluation of sixteen groundnut varieties for tolerance to soil acidity in Mpumalanga and Kwazulu – Natal provinces	Agronomy	Session 4	MegaVu
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Volschenk	T.	Irrigation management of apple orchards in sandy soil in two western Cape water management areas	Nutrition & water management	Session 5	Smugglers
Walker	S.	Providing farmers with useful climate information	Agrometeorology	Session 8	Ratanga Officers Club
Wanderi	S.	Experience on integrated seed system approach in Central and Eastern Kenya	Agricultural extension and education	Session 10	Ratanga Officers Club
Wutu	O.S.	The effect of drying methods and storage on nitrogen composition of top soil samples at DØhne agro-blocks, Eastern Cape, South Africa.	Agricultural chemistry	Session 9	Ratanga Officers Club
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93	A COMPARISON OF VISUAL DISEASE RATINGS AND FUNGAL TARGET DNA CONCENTRATIONS OF NINE COMMON ROOT ROT PATHOGENS	Abrahams
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