

## Tuesday 24 January 2017

Time	Event	Venue		
07:00 – 08:30	Registration	Kariba Hall – Klein Kariba – 24°50'59" S / 28°20'20" E		
<b>PLENARY SESSION</b>				
08:30 – 08:40	Welcome	Dr Diana Marais		
<b>Keynote address – Kariba Hall</b>				
09:40 – 09:10	SAWSS	Mr. Ivo Brants		Facts and myths of glyphosate
09:10 – 09:30	Poster Session 1	Viewing of posters 1 - 65		
<b>SESSION 1 - Tuesday 24 January 2017</b>				
Subject	Crop nutrition and water	Crop breeding and adaptation	Horticulture production and cultivation	Soil fertility
Chairperson	Prof Martin Steyn	Dr Sanesh Ramburan	Dr Martin Maboko	Dr Rianto van Antwerpen
Venue	Kariba Hall	Bosveld	Bosbok	Dassie
9:30 – 9:40	OPENING ADDRESS BY VENUE SPONSOR - HAIFA GROUP SOUTH AFRICA	OPENING ADDRESS BY GERHARD SCHOLTEMEIJER - PNS	OPENING ADDRESS BY ROD DREW - ISHS	OPENING ADDRESS BY VENUE SPONSOR – FERTASA
9:40 – 10:00	THE EFFECT OF DIFFERENT NITROGEN SOURCES ON THE YIELD AND WATER USE EFFICIENCY OF RAINFED MAIZE (ZEA MAYS L.) GROWN IN A SEMI-ARID REGION – Ehlers	IDENTIFYING THE BEST SOYBEAN CULTIVARS FOR THE DIFFERENT CLIMATIC REGIONS – De Beer	THE EFFECT OF PLANT DENSITY AND NITROGEN APPLICATION ON YIELD AND QUALITY OF BABY RED CABBAGE –Phahlane	QUANTIFYING SOIL ORGANIC MATTER LOSS DUE TO CULTIVATION IN SOUTHERN AFRICA – Swanepoel
10:00 – 10:20	WATER, NITROGEN AND PHOSPHOROUS USE EFFICIENCIES IN SEED POTATO UNDER CENTRE PIVOT IRRIGATION – Machakaire	INITIAL SCREENING OF SOYBEAN FOR MICROSATELLITE MARKERS CONFERRING RESISTANCE TO SCLEROTINIA STEM ROT – Mbedzi	COMPARATIVE PERFORMANCE OF RED SWEET PEPPER CULTIVARS GROWN IN A SHADENET STRUCTURE VS TEMPERATURE CONTROLLED PLASTIC TUNNEL – Lekala	INFLUENCE OF MANAGEMENT PRACTICES ON SOIL ORGANIC MATTER INDICATORS UNDER KIKUYU, RYEGRASS AND CLOVER PASTURE MIXTURES ON DAIRY FARMS IN THE TSITSIKAMMA REGION, SOUTH AFRICA – Phoho
10:20 – 10:40	COMPARING DIFFERENT WATER FOOTPRINT METHODOLOGIES – Le Roux	EVALUATION OF TEPARY BEAN ACCESSIONS FOR DROUGHT TOLERANCE AND YIELD RELATED TRAITS. – Mchunu	RAINWATER HARVESTING AND CONSERVATION TECHNIQUES FOR IMPROVED PRODUCTION OF LEAFY VEGETABLES IN DRY AREAS OF SOUTH AFRICA –Ibraimo	INOCULATION AND PHOSPHORUS APPLICATION A NECESSITY FOR SOYBEAN PRODUCTION IN MOZAMBIQUE – Savala
10:40 – 11:00	<b>TEA – Kariba Hall</b>			
<b>SESSION 2– Tuesday 24 January 2017</b>				
Subject	Crops, Soils, Horticulture, Weeds	Crop nutrition and water	Horticulture nutrition and water	Soil biology
Chairperson	Prof John Annandale	Dr Gert Ceronio	Dr Nicolette Taylor	Dr Ailsa Hardie-Pieterse
Venue	Kariba Hall	Bosveld	Bosbok	Dassie
11:00 – 11:20	USING AN AGRO-ECOLOGY BASED APPROACH FOR UNDERUTILISED CROPS IN SOUTHERN AFRICA – Walker	APPRAISAL OF FARMERS' SORGHUM PRODUCTION CONSTRAINTS AND VARIETY PREFERENCES IN THE LIMPOPO PROVINCE, SOUTH AFRICA – Motokeng	EFFECT OF REDUCED NUTRIENT CONCENTRATION AND FOLIAR FERTILISER APPLICATION ON HYDROPONICALLY GROWN FRESH MARKET AND CHERRY TOMATOES – Maboko	EFFECT OF TIME, TILLAGE AND CROPPING SYSTEMS ON GLOMALIN PRODUCTION BY ARBUSCULAR MYCORRHIZA IN WESTERN CAPE SOILS – Koch
11:20 – 11:40	INVESTIGATING THE IMPACT OF PROJECTED TIMING OF CLIMATE DEPARTURE ON CROP YIELD OVER WEST AFRICA – Egbebiyi	A REVIEW ON THE POTENTIAL OF ECOLOGICAL INTENSIFICATION TO IMPROVE FOOD PRODUCTION SYSTEMS IN SMALLHOLDER AGRICULTURE IN SOUTHERN AFRICA – Rusere	EVALUATING COMBINATIONS OF CALCIUM AND BORON FORMULATIONS ON REDUCTION OF SUNBURN ON 'GOLDEN DELICIOUS' AND 'GRANNY SMITH' - Daiber	COMPARING APPLE ORCHARD FLOOR MANAGEMENT PRACTICES USING SOIL ALTERATION INDEX THREE (AI3) - Meyer

11:40 – 12:00	EFFICACY OF POST-HARVEST SILICON DIPS ON THE MANAGEMENT OF CHILLING SUSCEPTIBILITY OF 'M37' MANDARIN SELECTION – Shibambu	TOWARDS ECOLOGICALLY SUSTAINABLE CROP PRODUCTION IN SOUTH AFRICA - Van der Laan	INFLUENCE OF NITROGEN APPLICATION ON YIELD, LEAF COLOUR AND ASCORBIC ACID OF LEAFY LETTUCE CULTIVARS GROWN IN CLOSED HYDROPONIC SYSTEM – Mampholo	A GREENHOUSE ASSESSMENT OF COAL MINE STOCKPILED SOILS: ARBUSCULAR MYCORRHIZAL FUNGAL SPORE DENSITY AND COLONIZATION IN MAIZE (ZEA MAYS) TRAP CULTURES - Ezeokoli
12:00 – 12:20	SOIL QUALITY INDICATORS AND THEIR SPATIAL VARIABILITY ON A CONTINUOUSLY CULTIVATED FIELD AT THE RESEARCH SITE OF THE UNIVERSITY OF LIMPOPO EXPERIMENTAL FARM - Kganyago	VEGETABLE SOYBEAN CULTIVAR RESPONSE TO SEEDING RATE AND SEASON – Arathoon	EFFECTS OF ORGANIC AND INORGANIC FERTILISERS ON THE GROWTH OF PSEUDERANTHEMUMATROPURPUREUM, SOIL FERTILITY AND LEACHATE COMPOSITION – Constance	THE IMPACT OF A ONCE-OFF PHOSPHATE FERTILIZER APPLICATION ON SOIL NUTRIENTS AND MICROBIAL COMMUNITIES IN GRASS-LEGUME MIXTURE AT LUSHINGTON, EASTERN CAPE, SOUTH AFRICA. – Mkiele
12:20 – 12:40		PERFORMANCE OF COWPEA VARIETIES UNDER STRIP INTERCROPPING AND PHOSPHORUS FERTILISATION IN LIMPOPO PROVINCE – Nkuna	ENHANCING CABBAGE (BRASSICA OLERACIA L. VAR. STAR 3301) PRODUCTION THROUGH APPLICATION OF 'VERTE GUANO' – Huma	ANALYSIS OF PLANT BIOMASS CARBON AND ITS RELATIONSHIP WITH SOIL CARBON STOCKS UNDER DIFFERENT ENVIRONMENTAL CONDITIONS - Mathew
12:40 – 13:25	<b>LUNCH – Klein Kariba Restaurant</b>			
<b>SESSION 3 - Tuesday 24 January 2017</b>				
<b>Subject</b>	<b>Crop physiology</b>	<b>Crop protection</b>	<b>Horticulture breeding and propagation</b>	<b>Soil genesis, classification and mapping</b>
<b>Chairperson</b>	<b>Prof Maxwell Poswal</b>	<b>Dr Elbe Hugo</b>	<b>Dr Zelda Bijzet</b>	<b>Mr Martiens du Plessis</b>
<b>Venue</b>	<b>Kariba Hall</b>	<b>Bosveldchibara</b>	<b>Bosbok</b>	<b>Dassie</b>
13:25 – 13:45	BIOLOGY AND GERMINATION CHARACTERISTICS OF UROCHLOAMOSAMBICENSIS AND UROCHLOAPANICOIDES – Malan	DETERMINATION OF FUSARIUM RESISTANCE IN WHEAT GERMLASM - De Villiers	HONEYBUSH BREEDING: IMPORTANT ROLE OF COMPLIMENTARY RESEARCH - Bester	DIGITAL SOIL MAPPING APPLICATIONS FOR AGRICULTURE - Van Zijl
13:45 – 14:05	GROWTH STAGE INFLUENCES THE RESPONSE OF CONYZABONARIENSIS TO GLYPHOSATE – Malaji	EFFICACY OF THE ENTOMOPATHOGENIC NEMATODE STEINERNEMAYIRGALEMENSE FOR THE CONTROL OF FOUR LEPIDOPTERAN STEMBORERS – Erasmus	EFFECT OF CHEMICAL SCARIFICATION ON SEED GERMINATION OF HIBISCUS CODDII SUBSP. BARNARDII - Du Plessis	GEOMORPHOLOGY AND SOILS OF THE LETABA TERRACES – Rozanov
14:05 – 14:25	HARVEST MATURITY EFFECT ON MAIZE SEED QUALITY – Modi	BASELINE SUSCEPTIBILITY OF BUSSEOLAFUSCA TO BT MAIZE IN SOUTH AFRICA – Strydom	MOLECULAR MARKERS IN HORTICULTURE: A TOOL FOR THE MODERN PLANT BREEDER AT THE AGRICULTURAL RESEARCH COUNCIL-TROPICAL AND SUBTROPICAL CROPS – Hajari	HYDROPEDOLOGY: LINKING GROUNDWATER AND SURFACE WATER - Van Tol
14:25 – 14:45	A PRELIMINARY STUDY: IMPACT OF BIO-STIMULANTS ON WHEAT UNDER HERBICIDE STRESS - Van Der Watt	TUTAABSOLUTA (LEPIDOPTERA: GELECHIIDAE), A NEW DEVASTATING TOMATO PEST IN SOUTH AFRICA – Visser	INDUCED POLYPLIIDY IN GUAVA (PSIDIUMGUAJAVA) AND ITS EFFECTS ON SELECTED HORTICULTURAL CHARACTERISTICS – Hannweg	EVALUATING THE EFFECTS OF DEM RESOLUTION AND GENERALISATION APPROACHES ON THE EXTRACTION OF TERRAIN INDICES IN KZN – Atkinson
14:45 – 15:05	SELECTION OF OSMOTOLERANT AND EFFECTIVE RHIZOBIAL STRAINS ON SYMBIOTIC NITROGEN FIXATION EFFICIENCY IN SOYBEAN UNDER WATER DEFICIT STRESS – Kibido	COMPARING EFFICACY OF NEMACUR, BIOCULT MYCORRHIZAE AND NEMARIOL-AL PHYTONEMATICIDE ON MELOIDOGYNEJAVANICA POPULATION DENSITIES AND GROWTH OF POTATO – Seshweni	SEED QUALITY OF CHICORIUMINTYBUS DIFFERING IN SEED COLOUR - Bertling	VERIFYING LAND ASSESSMENT TECHNIQUES USING HIGH RESOLUTION YIELD DATA – Barichievy
15:05 – 15:25	PROTEIN EXPRESSION IN MAIZE LEAVES EXPOSED TO COMBINED DROUGHT AND HEAT STRESS – Mutengwa		THE ABILITY OF CITRUS ROOTSTOCKS TO IMPART GOOD QUALITY AND PRODUCTION TO CITRUS SCIONS – Bijzet	EFFECTS OF LAND USE CHANGE ON SOIL AND WATER QUALITY AND PLANT SPECIES COMPOSITION OF CEDARA WETLANDS – Ndayi
15:25 – 15:45	<b>TEA – Kariba Hall</b>			
<b>SESSION 4 - Tuesday 24 January 2017</b>				
<b>Subject</b>	<b>Crop nutrition and water</b>	<b>Horticulture post harvest</b>	<b>Horticulture production and cultivation</b>	<b>Soil fertility</b>
<b>Chairperson</b>	<b>Prof Cornelius Chiduzo</b>	<b>Prof Isa Bertling</b>	<b>Mr. Mark Penter</b>	<b>Me LeushanthaMudaly</b>
<b>Venue</b>	<b>Kariba Hall</b>	<b>Bosveld</b>	<b>Bosbok</b>	<b>Dassie</b>
15:45 – 16:05	CLASSIFICATION OF SMALLHOLDER FARMERS FOR EFFECTIVE RAINFALL VARIABILITY MANAGEMENT IN SOUTH AFRICA – Mkuhlani	EFFECT OF 1-METHYLYCLOPROPENE AND HARVEST TIME ON 'HASS' AVOCADO FRUIT SKIN COLOUR CHANGE –Mathe	THE EFFECT OF FRUIT TO FRUIT VARIATION, HARVEST DATE, TREE AND ORCHARD EFFECTS, AND CULTIVAR DIFFERENCES ON WATER VAPOURPERMEANCE OF NECTARINE FRUIT – Chigwaya	SHORT-TERM EFFECTS OF TILLAGE, CROP ROTATION AND CROP RESIDUE MANAGEMENT ON THE SOIL QUALITY OF TWO EASTERN CAPE ECOTOPES – Gura
16:05 – 16:25	AN IRRIGATION CONTROL SYSTEM WITH A WEB-BASED INTERFACE FOR THE MANAGEMENT OF EUCALYPTUS SEEDLINGS IN A NURSERY – Kaptein	DYNAMICS OF LONG-TERM COLD STORAGE CONDITIONS FOR FYNBOS PRODUCTS AS RELEVANT FOR SEA FREIGHTING – Matsikidze	NUTRITIONAL EVALUATION OF HYDROPONICALLY GROWN TOMATO CULTIVARS UNDER DIFFERENT PRODUCTION SYSTEMS - Amoo	SOIL NITROGEN BEHAVIOUR IN CEREAL-LEGUME CROPPING SYSTEMS – Hlatshwayo
16:25 – 16:45	QUANTIFYING SWEET POTATO (IPOMOEA BATATAS) EVAPOTRANSPIRATION USING THE EDDY COVARIANCE TECHNIQUE - Mulovhedzi	EFFECT OF SELECTED PRODUCTION SITE, WAX PLUS DEHYDRATION AND COLD STORAGE TEMPERATURE ON RIND PITTING DEVELOPMENT ON 'TURKEY' SWEET ORANGE – Mthapo	EFFECTS OF LITSEAGLUTINOSA PLANT BIO-WASTE ENRICHMENT MEDIA ON PLANT GROWTH OF THYME AND ROCKET – Anumanthoo	INVESTIGATING AVAILABLE SOIL NUTRIENT LEVELS IN IRRIGATED WHEAT FIELDS IN SOUTH AFRICA – Sosibo
16:45 – 17:05	POTENTIAL OF THE COSMIC RAY NEUTRON PROBE AS AN IRRIGATION MANAGEMENT TOOL FOR POTATOES – Kumasamba	POSTHARVEST TREATMENTS TO ENHANCE THE COLOUR DEVELOPMENT AND FRUIT QUALITY OF CHERRY TOMATO (SOLANUM LYCOPERSICUM L. VAR. CERASIFORME) – Ngocho	INFLUENCE OF MARGINAL SOILS ON GROWTH OF MORINGAOLEIFERA SEEDLINGS – Nkuna	SPATIAL AND VERTICAL DISTRIBUTION OF SELECTED PHYSICO-CHEMICAL PROPERTIES IN TREATED WASTE-WATER-IRRIGATED FIELDS – Kgopa
17:05 – 17:25		THE EFFECT OF WHITE SHADE NET ON POST-HARVESTS FRUIT QUALITY AND STORAGE POTENTIAL OF 'NADORCOTT' MANDARINE (CITRUS RETICULATE BLANCO) - Ngwamba	POTENTIAL TO COMMERCIALIZE AND DEVELOP PRODUCTS FROM INDIGENOUS VEGETABLES: A CASE STUDY OF AMARANTH (AMARANTHUSCRUENTUS L.) – Mndzebele	ELEMENTAL COMPOSITION AND FERTILISER VALUE OF HAIR WASTE FROM DIFFERENT ETHNIC GROUPS - Malepfane
19:00 - Late				



## Wednesday 25 January 2017

Time	Event	Venue		
8:00 – 08:30	Registration	Kariba Hall – Klein Kariba – 24°50'59" S / 28°20'20" E		
<b>PLENARY SESSION</b>				
<b>Keynote address – Kariba Hall</b>				
09:40 – 09:10	SASHS	Dr Rod Drew	There has never been a more important era to work in Horticulture	
09:10 – 09:30	Poster Session 2	Viewing of posters 66 - 130		
<b>SESSION 5 - Wednesday 25 January 2017</b>				
Subject Chairperson	Crop nutrition and water Prof Ochanda Ogola	Weeds, crops and herbicides Dr Juan Vorster	Horticulture breeding and propagation Dr Karin Hannweg	Soil chemistry Prof Jude Odhiambo
Venue	Kariba Hall	Bosveld	Bosbok	Dassie
9:30 – 9:50	WATER USE OF CROPS AND NUTRITIONAL WATER PRODUCTIVITY OF SELECTED GRAIN LEGUMES FOR FOOD PRODUCTION, NUTRITION AND HEALTH IN POOR RURAL COMMUNITIES – Chibarabada	EFFECT OF TEMPERATURE STRESSED AMARANTHUSCRUENTUS L. RESIDUES AND EXTRACTS ON PEPPER GERMINATION AND SEEDLING GROWTH – Allemann	VARIANCE IN THE DORMANCY PROGRESSION OF APPLES IN SOUTH AFRICA. – Louw	SHOULD SLUDGE PRODUCED BY ACID MINE WATER NEUTRALISATION BE CLASSIFIED AS HAZARDOUS MATERIAL? – Sukati
9:50 – 10:10	SYMBIOTIC N <sub>2</sub> FIXATION AND GRAIN YIELD OF THE UNDER-UTILIZED KERSTING'S GROUNDNUT (MACROTYLIMAGEOCARPUM HARMS) LANDRACES IN RESPONSE TO INOCULATION WITH BRADYRHIZOBIUM SP. UNDER FIELD CONDITIONS IN GHANA – Mohammed	EFFICACY OF GLUFOSINATE AMMONIUM ON RYE-GRASS AS INFLUENCED BY DIFFERENT TEMPERATURES AND PLANT GROWTH STAGES – Mucherit	CROSS COMPATIBILITY BETWEEN SIX PROMISING IMPORTED LITCHI (LITCHI CHINENSIS) CULTIVARS. – Mabirimisa	THE EFFECT OF COMPOSTED BIOCHAR ON COMPOST PROPERTIES AND MINERALISATION – Botha
10:10 – 10:30	EFFECT OF DEFICIT IRRIGATION ON YIELD, QUALITY AND PHYTOCHEMICALS IN TWO LETTUCE (LACTUCA SATIVA L.) CULTIVARS AT HARVEST – Malejane	COMPARING THREE HERBICIDE RESISTANCE SCREENING METHODS - Nienaber	UNLOCKING THE POTENTIAL OF CROP WILD RELATIVES USING PREDICTIVE CHARACTERIZATION - Jansen van Rensburg	AN EVALUATION OF LIME REQUIREMENT METHODS FOR SOUTH AFRICAN SOILS - Van der Berg
10:30 – 10:50		TEMPERATURE AND GROWTH STAGE INFLUENCE GLYPHOSATE RESISTANCE IN CONYZABONARIENSIS (L.) CRONQ. FROM SOUTH AFRICA – Okumu	EVALUATING DIVERSITY AMONG SOUTH AFRICAN SWEETPOTATO GENOTYPES USING MORPHOLOGICAL AND SIMPLE SEQUENCE REPEAT MARKERS – Laurie	VERTICAL DISTRIBUTION OF ESSENTIAL ELEMENTS AND TRACE METALS ON A CONTINUOUSLY CULTIVATED AND FERTILIZED FIELD. – Phadu
10:50 – 11:10	<b>TEA – Kariba Hall</b>			
<b>SESSION 6 – Wednesday 26 January 2016</b>				
Subject Chairperson	Crop production Dr Marcellous le Roux	Horticulture indigenous and medicinal plants Prof Karen Theron	Horticulture nutrition and water Mrs Louisa Blomerus	Horticulture crop protection Dr Elmi Lötze
Venue	Kariba Hall	Bosveld	Bosbok	Dassie
11:10 – 11:30	SUSTAINABLE INTENSIFICATION THROUGH ROTATIONS WITH GRAIN LEGUMES IN SUB-SAHARAN AFRICA: A REVIEW – Franke	POST-HARVEST FACTORS AFFECTING THE INCIDENCE OF BLOSSOM-END CLEARING IN GRAPEFRUIT – North	INFLUENCE OF LATE NITROGEN APPLICATION ON 'NADORCOTT' MANDARIN FRUIT QUALITY – Marais	RESPONSES OF BETA VULGARIS GROWTH TO NEMAFRIC-BL PHYTONEMATOCIDE APPLICATION UNDER MICROPLOT CONDITIONS – Mashitoe
11:30 – 11:50	INTRODUCTION OF OYSTER MUSHROOM FARMING TO POTENTIAL GROWERS IN SOUTH AFRICA – Koch	THE EFFECT OF 1-METHYLCYCLOPROPENE (1-MCP) AND PROCHLORAZ ON THE STORAGE POTENTIAL AND QUALITY OF 'HASS' AVOCADO FRUIT – Roets	IMPROVED GROWTH OF HYDROPONICALLY GROWN ROUGH LEMON (CITRUS JAMBHIRI LUSH) SEEDLINGS TREATED WITH KELP AND ORGANIC EXTRACTS – Muchena	NEMATODE RESISTANCE IN SWEET POTATO CULTIVAR 'MAFUTHA' TO MELOIDOGYNE SPECIES IN SOUTH AFRICA – Nkosi
11:50 – 12:10	EFFECT OF NITROGEN APPLICATION AND LEAF HARVESTING ON YIELD AND QUALITY OF BEETROOT (BETA VULGARIS) – Mampa	EFFECT OF HARVEST TIME, POST-HARVEST STORAGE AND RIPENING TEMPERATURE ON QUALITY OF 'REED' AVOCADO CULTIVAR - Shikwambana	ESTIMATING WATER USE OF MATURE PECAN ORCHARDS: A SIX STAGE CROP GROWTH CURVE APPROACH – Taylor	INTERACTIVE EFFECTS OF BIOMUTI, MYCORRHIZAE AND PHYTONEMATOCIDES ON GROWTH OF TOMATO SEEDLINGS AND NEMATODES – Nyamandi
12:10 – 12:30	EFFECT OF PLANTING TECHNIQUES (HORIZONTAL AND VERTICAL) PLANTED WITH 2, 3 AND 4 INTERNODES UNDERGROUND ON SWEET POTATO PRODUCTION – Hierema	IMPROVING TRANSPLANTING SURVIVAL OF MORINGAOLEIFERA SEEDLINGS THROUGH SUPPRESSING GROWTH USING INDOLE ACETIC ACID – Mashamaite	USE OF CONTINUOUS STEM AND FRUIT GROWTH MEASUREMENTS FOR DETECTING WATER STRESS IN APPLE ORCHARDS - Zirebwa	CONCENTRATION OF NEMAFRIC-BL PHYTONEMATOCIDE TO STIMULATE GROWTH OF PELARGONIUM SIDOIDES – Sithole

12:30 – 12:50	VARIATIONS IN NITROGEN FIXATION, GRAIN YIELDS AND WATER USE EFFICIENCY OF PROMISCUOUS SOYBEAN GENOTYPES GROWN UNDER FIELD CONDITIONS AT TWO LOCATIONS IN MPUMALANGA PROVINCE, SOUTH AFRICA – Mbah	ESSENTIAL OIL YIELD AND COMPOSITION OF AFRICAN WORMWOOD (ARTEMISIA AFRA) FOUND IN DIFFERENT AGRO-CLIMATIC ZONES OF THE EASTERN CAPE, SOUTH AFRICA. – Mpambani	EFFECT OF ORGANIC AND INORGANIC MULCH APPLICATION ON THE YIELD AND WATER USE EFFICIENCY OF SWISS CHARD – Sithole	DEGREE OF NEMATODE RESISTANCE IN SWEET POTATO CULTIVAR 'MVUVHELO' TO MELOIDOGYNE INCOGNITA - Makhwedzhana
12:50 – 13:35	<b>LUNCH – Klein Kariba Restaurant</b>			
13:45 – 18:00	<b>SASCP – Conservation agriculture and maize seed production</b>	<b>SSSSA – Soils in the BelaBela area</b>	<b>SASHS – Stone fruit production near Modimole</b>	

## Thursday 26 January 2017

Time	Event	Venue
8:00 – 08:30	Registration	Kariba Hall – Klein Kariba – 24°50'59" S / 28°20'20" E

### PLENARY SESSION

#### Keynote address – Kariba Hall

08:30 – 09:20	SSSSA & SASCP	Dr Adriana Marais	Watch this Space: Expanding our imaginations and our world
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#### SESSION 7 - Thursday 26 January 2017

Subject	Crop quality	Weed management	Horticulture crop protection	Soil technology
Chairperson	Prof Phatu Mashela	Dr PJ Pieterse	Prof Puffy Soundy	Dr Cobus Botha
Venue	Kariba Hall	Bosveld	Bosbok	Dassie
9:30 – 9:50	THE POTENTIAL RELATIONSHIP BETWEEN PREHARVEST SPROUTING TOLERANCE AND ALUMINIUM SENSITIVITY IN WHEAT – Barnard	ANNUAL RYEGRASS DYNAMICS – ARE WE WINNING THE BATTLE OR LOSING THE WAR? – Strauss	RESPONSES OF GREEN BEAN GROWTH TO NEMARIOC-AL PHYTONEMATOCIDE – Chokoe	UNDERSTANDING THE FATE OF NITROGEN FERTILIZER USING STABLE ISOTOPE AND CONSERVATIVE TRACER TECHNIQUES – Mangwende
9:50 – 10:10	PROTEIN QUALITY VERSUS PROTEIN QUANTITY IN SOUTH AFRICAN COMMERCIAL BREAD WHEAT CULTIVARS – Lindeque	FUNCTIONAL TRAITS FOR STRATEGIC WEED MANAGEMENT IN VINEYARDS – MacLaren	INTERACTIVE EFFECTS OF NEMARIOC-AL AND NEMAFRIC-BL PHYTONEMATOCIDES ON TOMATO CV. 'HTX 14' UNDER FIELD CONDITIONS – Maake	THE EFFECT OF SLUDGE TREATMENT METHODS AND POST TREATMENT DEWATERING TECHNIQUES ON THE NITROGEN FERTILIZER VALUE OF SLUDGE – Tesfamariam
10:10 – 10:30	OVERCOMING THE CHALLENGE OF PHYSICAL SEED DORMANCY IN BAMBARA GROUNDNUT BY SCARIFICATION - A SEED QUALITY STUDY – Miya	EVALUATION OF MESOTRIONE AS A PRE-EMERGENCE HERBICIDE TO CONTROL VOLUNTEER POTATOES – Allemann	MEAN CONCENTRATION STIMULATION POINT OF NEMARIOC-AL PHYTONEMATOCIDE FOR CUCURBITA PEPO UNDER MICROPLOT CONDITIONS – Lebea	EFFECT OF SAMPLING DEPTH ON DETERMINATION OF SOIL POTASSIUM AND CARBON STOCKS - Van Antwerpen
10:30 – 10:50	SOIL FERTILITY, YIELD AND FRUIT SIZE OF AVOCADO AS INFLUENCED BY DIFFERENT MULCH TYPES – Mohale		RESPONSES OF CUCURBITA PEPO CULTIVAR 'CASERTA' TO NEMARIOC-AL PHYTONEMATOCIDE – Lebea	EFFECTS OF CONSERVATION AGRICULTURE COMPONENTS ON C-SEQUESTRATION AND CARBON DIOXIDE EMISSION IN TWO ECOTYPES OF THE EASTERN CAPE PROVINCE, SOUTH AFRICA. – Muzangwa
10:50 – 11:10	<b>TEA – Kariba Hall</b>			

#### SESSION 8 – Thursday 26 January 2017

Subject	Crop breeding and adaptation	Conservation agriculture	Horticulture physiology	Horticulture breeding and propagation
Chairperson	Dr Sydney Mavengahama	Dr Johann Strauss	Dr Nhlanhla Mathaba	Dr Riana Kleynhans
Venue	Kariba Hall	Bosveld	Bosbok	Dassie
11:10 – 11:30	FIELD PERFORMANCE OF SUGARCANE CULTIVARS DURING DROUGHT: INSIGHTS INTO DROUGHT TOLERANCE STRATEGIES – Ramburan	A FINANCIAL ANALYSIS OF CROP-LIVESTOCK INTEGRATION IN CONSERVATION AGRICULTURE – Basson	SENSITIVITY OF APPLE FRUIT PEEL PHOTOSYSTEMS TO HIGH LIGHT AND TEMPERATURE AS INFLUENCED BY A RANGE OF DWARFING AND SEMI-VIGOROUS ROOTSTOCKS – Barasu	EVALUATION OF PROGENIES OF DIALLEL CROSSES BETWEEN ORANGE-FLESHED AND CREAM-FLESHED SWEETPOTATO: HAS PROGRESS BEEN MADE? – Laurie
11:30 – 11:50	TARGETED HAPLOTYPE COMPARISONS BETWEEN SA	INFLUENCE OF DEGREE OF SOIL DISTURBANCE ON	CHEMICAL FRUIT THINNING STRATEGIES FOR LATE	TESTING THE EFFECT OF AFRIKELP ORGANIC ABIOTIC

	WHEAT CULTIVARS APPEAR PREDICTIVE OF PHS TOLERANCE - Sydenham	CROP PRODUCTIVITY, YIELD AND QUALITY OF WHEAT AND CANOLA WITHIN CROPPING SYSTEMS IN THE WESTERN CAPE – Labuschagne	MANDARINS (CITRUS RETICULATA) – Stander	STRESS PRODUCT ON THE GROWTH AND PRODUCTION OF SWISS CHARD UNDER FIELD CONDITIONS – Laurie
11:50 – 12:10	FIELD SCREENING OF MAIZE GENOTYPES FOR TOLERANCE TO ACIDIC SOILS OF MHLONTLO LOCAL MUNICIPALITY IN O.R.TAMBO DISTRICT, EASTERN CAPE – Mkafula	EPIGEAL ARTHROPODS IN CONSERVATION AGRICULTURE – Meyer	OPTIMIZATION OF A METHOD FOR FLAVONOID QUANTIFICATION IN GRAPEFRUIT - Van Der Loo	EFFECT OF STEM CUTTING LENGTH, ROOTING HORMONES AND PROPAGATION MEDIA ON ROOTING RESPONSE OF ROSE-SCENTED GERANIUM CUTTINGS – Matafeni
12:10 – 12:30	POPULATION STRUCTURE AND GENOME-WIDE MARKER-TRAIT ASSOCIATION OF KEY AGRONOMIC TRAITS IN WHEAT – Mwadzingeni	AN OVERVIEW OF CROP PRODUCTION PRACTICES BY SMALL SCALE FARMERS IN THE EASTERN CAPE PROVINCE – Mhlontlo	WHITE ROOT GROWTH DYNAMICS OF BEARING APPLE TREES IN ELGIN – Lötze	RESPONSES OF CITRUS ROOTSTOCK SEEDLINGS TO NEMARIOC-AL AND NEMAFRIC-BL PHYTONEMATICIDES – Mathabatha
12:30 – 12:50	OPTIMISATION OF NITROGEN AND POTASSIUM FERTILISATION FOR SELECTED NEW POTATO CULTIVARS - Nhase	INDIGENOUS KNOWLEDGE SYSTEMS (IKS) USED BY FARMING COMMUNITIES TO CONSERVE SOIL AND WATER, AND IMPROVE CROP YIELDS IN THE FACE OF AN ERRATIC RAINFALL SUPPLY - Vilakazi	EVALUATING THE EFFECT OF CULTIVATION PRACTICES ON FRUIT QUALITY AND SUCKER DEVELOPMENT OF SIX NEW QUEEN PINEAPPLE VARIETIES - Mbatha	SCREENING OF TWELVE SWEET POTATO CULTIVARS USED IN BIOFORTIFICATIONPROGRAMME AGAINST MELOIDOGYNE SPECIES – Legong
12:50 – 13:35	<b>LUNCH – KLEIN KARIBA RESTAURANT</b>			
<b>SESSION 9 – Thursday 26 January 2017</b>				
<b>Subject</b>	<b>Crop modeling</b>	<b>Horticulture food quality and post-harvest</b>	<b>Horticulture breeding and propagation</b>	<b>Horticulture post-harvest</b>
<b>Chairperson</b>	<b>Dr Nebo Jovanovic</b>	<b>Dr Cecilia Bester</b>	<b>Dr ElliashaHajari</b>	<b>Dr Esmé Louw</b>
<b>Venue</b>	<b>Kariba Hall</b>	<b>Bosveld</b>	<b>Bosbok</b>	<b>Dassie</b>
13:35 – 13:55	MODELLING THE IMPACT OF EXTREME WEATHER EVENTS UNDER FUTURE CLIMATE CHANGE ON MAIZE YIELD: AN INTERCOMPARISON BETWEEN EXISTING AND MODIFIED MODELLING SOLUTIONS – Mangani	PREDICTING MACADAMIA KERNEL SHELF-LIFE - Penter	PHENOLOGY OF HONEYBUSH (CYCLOPIAGENISTOIDES AND C. SUBTERNATA) GENOTYPES – Motsa	COMPLEXITIES OF 'HASS' AVOCADO FRUIT COLOUR CHANGE DURING RIPENING - Mathaba
13:55 – 14:15	POTENTIAL ON AND OFF-SITE IMPACTS OF LARGE AGRICULTURAL INVESTMENTS AND SMALL-SCALE FARMERS IN KENYA AND MOZAMBIQUE - Da Silva	BROADENING THE FOOD BASE: NUTRITIONAL EVALUATION OF SWEET PEPPER LEAVES FOR FOOD AND NUTRITIONAL SECURITY – Amoo	CHLOROPLAST PHYLOGENOMICS IN CACTUS PEAR (OPUNTIAFICUS-INDICA) – Peni	IS CITRUS PEEL THICKNESS AN EFFECT OF THE ROOTSTOCK, SCION OR ENVIRONMENT? – Bijzet
14:15 – 14:35	CALIBRATION AND TESTING OF AQUACROP FOR SELECTED SORGHUM GENOTYPES - Hadebe	AN EVALUATION OF THE NUTRITIONAL AND HEALTH PROMOTING PROPERTIES OF TWO RUMEX SPECIES CONSUMED AS WILD LEAFY VEGETABLES - Seepe	PROPAGATING AFRICAN POTATO BY INDUCING CORM BUDS - Mofokeng	POSTHARVEST 'FORELLE' MEALINESS INFLUENCED BY CANOPY POSITION, RIPENING RATES AND POLLINATION – Cronje

<b>ANNUAL GENERAL MEETING</b>				
14:35 – 14:45	SAPSSC – all SASC. SSSSA. SASHS and SASWS members – Kariba Hall			
14:45 – 16:00	SASCP – Kariba Hall	SSSSA – Dassie	SASHS – Bosbok	SASWS – Bosveld
16:00 - 16:20	<b>TEA – Kariba Hall</b>			
16:20 – 17:00	<b>WORK SHOP – SOUTH AFRICAN JOURNAL OF PLANT AND SOIL (Bosveld)</b> Guidelines for students – How to get published Genreal discussion on SAJPS / Questions from potential authors			
19:00 – Late	<b>GALA DINNER – KLEIN KARIBA RESTAURANT</b>			