

# COMBINED CONGRESS

Annual congress of SSSSA, SASHS & SASCP

WHAT IS THE NEW NORMAL FOR AGRICULTURE TO ENSURE SUSTAINABLE LIVELIHOOD IN AFRICA?

WAT IS DIE NUWE NORMAAL OM VOLHOUBARE LEWENSONDERHOUD IN AFRIKA TE VERSEKER?

Aanlyn kongres / Online congress

**17-23 January 2022**Viewing of the abstracts and posters

25-27 January 2022 Combined Congress

https://combinedcongress.org.za/

# COMBINED CONGRESS 2022 GESAMENTLIKE KONGRES 2022

Soil Science Society of South Africa / Grondkunde Vereniging van Suid-Afrika South African Society of Crop Production / Suid-Afrikaanse Vereniging vir Gewasproduksie Southern African Society for Horticultural / Suider-Afrikaanse Vereniging vir Tuinbouwetenskappe



## **COMBINED CONGRESS 2022**

#### INTRODUCTION

The Combined Congress of the Crop, Soil, Horticultural and Weed Science Societies of South Africa will be held online from **25-27 January 2022**. The theme of congress is: What is the new normal for agriculture to ensure sustainable livelihood in Africa?

The congress provides opportunities for interaction between various agricultural role players who will present their latest scientific findings, and deliberate issues pertaining to soil and the production of food and industrial crops in South and Southern Africa. Not only does this event broadens the knowledge base of all concerned, but also enhances the synergies between the different institutions and business sectors.

#### **DETAILS ABOUT CONFERENCE**

During the morning sessions there will be a live talk by an invited speaker, followed by live discussion sessions on presentations and posters during the day arranged in specific sub-topics. During these sessions speakers will be required to answer questions from participants. All presentations and posters will be available for viewing during the week of 17-23 January 2022.

#### REGISTRATION

Please register on our website: <a href="https://combinedcongress.org.za/">https://combinedcongress.org.za/</a>

You will first have to register on the Combined Congress website before you can register for the Combined Congress itself. Members of societies can log in with their society credentials.

## **TICKETS AND BOOKINGS**

www.quicket.co.za/events/142896-combined-congress-2022-annual-congress-of-ssssa-sashs-sascp#/

If you have any enquiries about tickets, payments or need an invoice, please e-mail contact Clint Ockhuis from Landbouweekblad (Media24) (our event partner). E-mail - Clint.Ockhuis@media24.com

### **ENQUIRIES**

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POSTERS SASHS ORAL PRESENTATIONS									
			Session 1		Session 2		Session 3		Session 4
	SASHS poster session		Biotechnology, Breeding, Propagation, Nutrition, Water Mangement & Crop Protection		Indigenous, Medicinal Plants; New & Alternative Crops		Production & Cultivation Practices		Physiology & Post-Harvest Biology
Number		Number	Title	Number	Title	Number	Title	Number	Title
Н33	HARD SEED COAT THE DOMINANT FACTOR IN DORMANCY OF CANCER BUSH (SUTHERLANDIA FRUTESCENS) - Mkhwanazi, Ubisi, Kgotse, Mlombo, Timana, Dube, Letsoalo	H1	EVALUATION OF DNA MOLECULAR MARKERS FOR FINGERPRINTING SELECTED LITCHI CULTIVARS - Hajari, Nonyane, Cronje	H7	PROTEOMICS ANALYSIS OF HONEYBUSH (CYCLOPIA SUBTERNATA) LEAVES IN RESPONSE TO DROUGHT STRESS - Mabizela, Mathabe, Slabbert, Van der Rijst, Bester	H12	EFFECT OF HARVESTING TIME ON YIELD AND QUALITY OF ROSEMARY, ROSE GERANIUM AND THYME ESSENTIAL OILS - Du Preez, De Jager	H26	DOES ELEVATED CO2 AFFECT THE BIOCHEMICAL QUALITY AND NUTRITIONAL PARAMETERS OF SWEETCORN (ZEA MAYS L. VAR. SACCHARATA) - Bertling, Dlulisa
H34	EFFECT OF LOW AND HIGH MOLECULAR WEIGHT CHITOSAN ON THE EXPRESSION OF DEFENSE- RELATED GENES OF AVOCADO PERICARP - Mokgalapa, Pillai, Akinola, Sivakumar	H2	SWEET BASIL RESPONSE TO VARYING NUTRIENT SOLUTION CONCENTRATIONS AND WATER FLOW RATES IN A GRAVEL FILM RECIRCULATING HYDROPONIC SYSTEM - Moremi, Steyn, Ibraimo	Н8	TO PROTECTED ENVIRONMENT OR NOT: REVEALING CONVINCING EVIDENCE OF UV-INDUCED GEOMETRICAL ISOMERIZATION OF CINNAMIC ACID CONTAINING MOLECULES IN BUSH TEA (ATHRIXIA PHYLICOIDES DC.) USING UHPLC-QTOF-MS - Ramphinwa, Madala, Mudau, Mchau	H13	THE EFFECT OF VARYING LIGHT INTENSITY ON MORPHOLOGICAL AND QUALITY PARAMETERS OF SWEET PEPPERS – Dlamini, Bertling	H27	EXOGENOUS ETHEPHON APPLICA- TION AFFECTS GENE EXPRESSION OF ETHYLENE-, DORMANCY- AND FLOWERING-RELATED GENES AND ALTERS TREE PHENOLOGY AND PHYSIOLOGY IN LITCHI, CV. "MAURITIUS" - Cronje, Hajari, Ratlapane , Hoffman, Jonker
H35	RESPONSE OF CHILI PEPPER CULTI- VARS (CAPSICUM FRUTESCENS L.) TO NITROGEN FERTILIZER AND PLANTING DENSITY - Maphoto, Bertling, Maboko, Ibraimo	НЗ	EFFECT OF NITROGEN FERTILIZER SOURCE ON GROWTH, YIELD, QUALITY, AGRONOMIC PERFORMANCE, AND NITROGEN USE EFFICIENCY OF SHORT-DAY ONION IN RESPONSE TO THE COMBINED APPLICATION OF DIFFERENT NITROGEN FERTILIZERS - Simelane, Soundy, Maboko	Н9	ESTABLISHMENT OF HONEYBUSH CUTTINGS AND SEEDLINGS IN THE FIELD AND THE EFFECT OF BIOSTIMULANTS ON REDUCING ABIOTIC STRESS WHEN TRANSPLANTING ROOTED CUTTINGS  - Karsen, Hoffman, Lötze, Valentine	H14	EARLY ASSESSMENT OF COMPATIBILITY IN SELECTED LITCHI SCION-ROOTSTOCK COMBINATIONS - Hannweg, Maphanga, Shezi, Penter, Hajari	H28	THE IMPACT OF ELEVATED CO2 ON GROWTH, DEVELOPMENT, AND REPRODUCTION ON SWEETCORN (ZEA MAYS L. VAR. SACCHARATA) - Dlulisa, Bertling, Cluclow
Н36	INFLUENCE OF FOLIAR APPLIED ZINC CARRIERS ON PECAN NUT [CARYA ILLI- NOENSIS L. (WANGENH.) C. KOCH] - Visser, Schmidt, Coetzer	H4	RECOVERY RESPONSE OF SIMULATED HAIL-DAMAGED ROSE GERANIUM (PELARGONIUM GRAVEOLENS L'Hèr "Bourbon") TO DIFFERENT MIXTURES OF AGRICULTURAL PLANT GROWTH REGULATORS - Khetsha, Sedibe, Pretorius, Van Der Watt	H10	THE EFFECT OF PRUNING AND HARVESTING ON VEGETATIVE GROWTH AND FLOWERING OF LEUCOSIDEA SERICEA - Mabusela, Matsiliza-Mlathi, Kleynhans, Araya	H15	THE EFFECT OF PROHEXADIONE-CALCIUM APPLICATION ON SHOOT REGROWTH, CROP LOAD AND FRUIT YIELD ALTERNATION IN FUJI APPLE TREES - Horne, Kotze, Krige, Steyn, Theron, Siboza	H29	SELECTION OF STABLE AND HIGH-YIELDING DWARFING APPLE ROOTSTOCK GENOTYPES - Ngindi, Siboza, Theron, Steyn
Н37	STORAGE OF RADISH MICROGREENS UNDER DIFFERENT LED LIGHTS IMPACTS RADISH QUALITY AND ANTIOXIDANT PROPERTY - Ntsoane, Maboko, Manhivi, Sivakumar	Н5	EFFICACY OF LACTIC ACID BACTERIA STRAINS ON ANTHRACNOSE DECAY AND FRUIT QUALITY OF AVOCADO (PERSEA AMERICANA) FRUIT (FUERTE) - Mpeluza, Sivakumar, Akinola	H11	EFFICIENCY OF RHIZOBIA STRAINS ON GROWTH, SELECTED MACRONUTRIENTS AND PROTEIN CONTENT OF CANCER BUSH (SUTHERLANDIA FRUTESCENS) - Masenya, Pofu, Mashela	H16	PHENOLOGY AND PRODUCTION OF HELICHRYSUM ODORATISSIMUM - Makena, Matsiliza-Mlathi, Kleynhans	H30	GENETIC DIVERSITY AND PHYLO- GENETIC ANALYSIS OF RHIZOBIAL SYMBIONTS OF GROUNDNUT, JACK BEAN AND SOYBEAN SOURCED FROM DIFFERENT LOCATIONS IN ESWATINI - Ngwenya, Dakora, Mohammed
Н38	CHARACTERISTICS OF THE SWEET POTATO THAT INDICATE ITS POTEN- TIAL TO ADDRESS ISSUES OF FOOD AND NUTRITION SECURITY IN THE CONTEXT OF CHANGING GLOBAL CLIMATE - Shange, Phosa	Н6	GENETIC DIFFERENCES BETWEEN AVOCADO SUNBLOTCH VIROID (ASBVD) VARIANTS DETECTED IN A CLONAL POPULATION OF YOUNG, SYMPTOMLESS "FUERTE" TREES - Zwane, Gubba, Jooste			H17	GROWTH, HERBAGE AND OIL YIELD OF SELECTED HIGH-VALUE ESSENTIAL OIL CROPS AS INFLUENCED BY VARIOUS AGRONOMIC FACTORS - Malaka, Araya, Soundy, Jansen van Rensburg, Du Plooy, Araya, Watkinson, Amoo	H31	CHITOSAN HYDROCHLORIDE COATINGS LOADED WITH FUNC- TIONAL COMPOUNDS PROTECT AVOCADO FRUIT ("FUERTE") FROM ANTHRACNOSE AND ACTIVATE THEIR DEFENSE MECHANISMS - Osondu, Akinola, Shoko, Pillai, Sivakumar
						H18	ROOFTOP RAINWATER HARVESTING FOR SUPPLEMENTAL IRRIGATION OF SWISS CHARD (BETA VULGARIS VAR. CICLA) CULTIVATED IN A BAG CULTURE SYSTEM - Maleka, Araya, Soundy	H32	FATTY ACID PROFILES IN SOUTH AFRICAN MACADAMIAS AND THEIR IMPACT ON QUALITY AND SHELF LIFE - Penter
						H19	EFFECT OF PLANTING DENSITY ON GROWTH AND YIELD OF FIELD AND HYDROPONICALLY GROWN CHILI PEPPER (CAPSICUM FRUTESCENS L.) - Maphoto, Bertling, Maboko, Ibraimo		
						H20	ESTABLISHING PROPAGATION TECHNOLOGY FOR BUDDLEJA SALIGNA AND EUCLEA NATALENSIS - Maringa, Kleynhans, Prinsloo		
						H21	THE EFFECT OF TIMING OF APPLICATION AND DOSAGE OF CLOPROP ON FRUIT ENLARGEMENT AND CLOPROP RESIDUES IN QUEEN PINEAPPLE FRUIT AT HARVEST - Mbatha, Rabie		
						H22	MODELLING AND MAPPING FUTURE CLIMATIC CONDITIONS FOR POME AND STONE FRUIT PRODUCTION IN THE WESTERN CAPE OF SOUTH AFRICA - Midgley, Schulze, Davis		
						H23	THE EFFECT OF DIFFERENT PRE-TREATMENTS TO BREAK SEED DORMANCY OF HYPOXIS HEMEROCAL- LIDEA - Mtshweni, Kleynhans, Matsiliza-Mlathi		
						H24	EVALUATING THE EFFICACY OF MORINGA OLEIFERA LEAF EXTRACTS PREPARED USING DIFFERENT SOLVENTS ON GROWTH, YIELD AND QUALITY OF TOMATOES AND PEPPERS - Ngcobo, Bertling		
						H25	THE CONTROL OF NATURAL FLOWERING IN QUEEN PINEAPPLE WITH TREATMENT COMBINATIONS OF AVIGLYCINE, CLOPROP, RHAMNOLIPIDS AND FERTILISERS DURING WINTER MONTHS IN SOUTH AFRICA - Rabie, Mbatha		



POSTERS				SSSSA O	RAL PRESENTATIONS		
			Session 1		Session 2		Session 3
	SSSSA poster session		Soil Classification & Mapping	1	Soil Biology & Fertility	1	Soil Physics & Technology
Number		Number	Title	Number	Title	Number	Title
S22	EVALUATING THE RELIABILITY OF WISE AND AFSIS SOIL PARAMETERS FOR CROP AND HYDROLOGICAL MODELLING IN SOUTH AFRICA - Thomson, Van der Laan	S1	REFINING DIGITAL SOIL MAPPING PROTOCOLS TO IMPROVE SOIL ECOTOPE MAPPING IN THE KWAZULU-NATAL BIORESOURCE CLASSIFICATION SYSTEM - Atkinson, De Clercq, Rozanov	\$8	CARBON LOSSES AND GAINS IN AGRICULTURAL SOILS: A BASELINE STUDY OF THE MICROBIAL COMMUNITY OF TWO SOILS UNDER TWO CULTIVATION PRACTICES - Kidson, Rama, Adeleke, Paterson, Roopnarain	S17	SOIL HEALTH AND CROP DIVERSIFICATION IN SUB-SAHARAN AFRICA: COMBINING EXPERT KNOWLEDGE WITH INTEGRATED MODELLING FOR BUILDING RESILIENT FOOD SYSTEMS - Eze, Zimba, Dougill, Challinor, Pope, Clark, Coskeran, Mashingaidze, Macdiarmid, Fitton, Smith, King, Chapman, Mwamakamba, Kepinski, Jennings, Vetter, Tim Benton, Madzivhandila
S23	SOIL ENZYME ACTIVITIES AND SOIL ALTERATION INDEX RESPONSE TO BIOSTIMULANT APPLICATION IN A TABLE GRAPE VINEYARD - Mahlare, Meyer, Mfeka, Van Huyssteen, Rhode	S2	INVESTIGATION INTO THE ACCURACY OF SELECTED SOIL PROPERTIES FOR DIFFERENT GLOBAL AND REGIONAL SOIL MAPS RELEVANT TO SOUTHERN AFRICA - Bodenstein, Clarke, Watson, Miller, Van der Westhuizen, Rosanov	S9	MINE REHABILITATION ASSESSMENT USING AN ENZYME-BASED SOIL ALTERATION INDEX - Meyer, Rhode, Van Huyssteen	S18	EFFECT OF SOIL FORMS ON SOIL WATER AND DRYLAND COTTON PRODUCTION - Gagiano, Van Zijl, Dreyer, Daniell
S24	SOIL ENZYME ACTIVITIES AND SOIL ALTERATION INDEX RESPONSE TO BIOSTIMULANT APPLICATION IN A WINE GRAPE VINEYARD - Mahlare, Meyer, Mfeka, Van Huyssteen, Rhode	S3	IS SOIL A DRIVING FACTOR OF BUSH ENCROACHMENT IN THE NORTH WEST PROVINCE? - Cloete	S10	FIRE AND HERBIVORE GRAZING ALTERS SOIL CARBON AND NUTRIENTS IN A SAVANNA GRASSLAND - Ramabopa, Dlamini, Archibald	S19	MID-INFRARED SPECTROSCOPY CALIBRATION MODELS FOR SOIL PROPERTY PREDICTION WITHIN THE WESTERN HIGHVELD - Kock, Van Zijl, Ramphisa
S25	AN ENZYME-BASED SOIL ALTERATION INDEX (AI3) FOR MINE REHABILITATION ASSESSMENT - Meyer, Van Huyssteen, Rhode	S4	DIGITAL SOIL MAPPING OF THE JUKSKEI RIVER CATCHMENT USING A MACHINE LEARNING APPROACH - Coetzee, Van Zijl	S11	SOIL ORGANIC CARBON AND MICROBIAL ACTIVITY IN HUMIC SOILS UNDER GREEN CANE RELATIVE TO PRE-HARVEST BURNING - Mkhonza, Muchaonyerwa	S20	CHARACTERIZATION OF PINEWOOD BIOCHAR AND ITS POTENTIAL USE IN REDUCTION OF HEAVY METAL CONTAMINATES MIGRATION - Mamera, Van Tol, Aghoghovwia
S26	BIOREMEDIATION OF HEAVY METALS IN AGRICULTURAL SOILS IRRIGATED WITH TREATED WASTEWATER - Phadu, Kgopa	S5	ASSESSING SOIL SURFACE SALT ACCUMULATION (SOIL SALINITY) USING MULTISPECTRAL IMAGES IN SYFERKUIL FARM - Mamorobela	S12	THE RESPONSE OF SOIL PHYSICOCHEMICAL PROPERTIES TO RAINFED AND IRRIGATED MAIZE/LEGUME INTERCROPPING SYSTEMS - Nong, Pholosho, Ogola	S21	BUILDING CLIMATE-SMART, NUTRITION-SECURE PATHWAYS IN AFRICA USING IFEED - AN INTEGRATED FUTURE ESTIMATOR FOR EMISSIONS AND DIETS FRAMEWORK - Vetter, Challinor, Pope, Clark, Coskeran, Mashingaidze, Macdiarmid, Fitton, Smith, King, Chapman, Mwamakamba, Jennings, Walker, Benton, Madzivhandila
S27	EFFECTS OF PHYTOREMEDIATION ON SELECTED CHEMICAL PROPERTIES OF SOILS IRRIGATED WITH TREATED WASTEWATER - Malatji, Kgopa, Bopape-Mabapa	\$6	THE DEVELOPMENT OF THE NWU SOIL DATABASE AS A PRECURSOR FOR A NATIONAL SOIL DATABASE - Sehlapelo, Ramphisa, Van Zijl	S13	CROPPING SEQUENCES INFLUENCE ON LABILE CARBON AND PHOSPHORUS FRACTIONS IN A CONSERVATION AGRICULTURE SYSTEM - Sosibo, Muchaonyerwa, Dube, Tsilo		
S28	PLANT WATER-USE EFFICIENCY AND SYMBIOTIC N NUTRITION OF 15 SOYBEAN (GLYCINE MAX) GENOTYPES GROWN IN THE UPPER WEST REGION OF GHANA, USING 13C AND 15N NATURAL ABUNDANCE TECHNIQUE - Mnguni, Mohammad, Mahama, Abdulai, Dakora	S7	SOIL MAPPING FOR HYDROPEDOLOGICAL ASSESSMENTS - Van Zijl	S14	PRELIMINARY FINDINGS OF A QUANTITATIVE REVIEW OF SUGARCANE RESPONSES TO SILICON-RICH AMENDMENTS UNDER FIELD CONDITIONS - Titshall		
S29	PRELIMINARY RESULTS ON THE EFFICACY OF POLYACRYLAMIDE (PAM) TO ALLEVIATE SOIL CRUSTING FOR RECLAMATION OF DEGRADED LAND IN DINOKENG GAME RESERVE - Human, Nortjè, Laker			S15	SOIL ORGANIC CARBON STRATIFICATION UNDER CONSERVATION AGRICULTURE IN THE WESTERN CAPE PROVINCE - Van der Merwe, Labuschagne, Hardie-Pieters		
S30	THE VARIATION IN SOIL CARBON EMISSION RATES IN FIVE LAND USE SYSTEMS OF THE LETABA CATCHMENT, LIMPOPO PROVINCE, SOUTH AFRICA - Ntuli, Monjonji, Dlamini, Ayisi			S16	CONCENTRATIONS AND FRACTIONS OF ORGANIC CARBON AND PHOSPHORUS AS AFFECTED BY PIG SLURRY APPLICATION ON OXIDIC SOILS UNDER SUBHUMID CONDITIONS - Zwane, Muchaonyerwa		
S31	APPLICATION OF BIO-SLURRY TO IMPROVE MAIZE PRODUCTION IN RURAL COMMUNITIES - Anderson, Wessels, Koatla						
S32	USE OF DEMONSTRATION PLOTS AS AN EFFECTIVE TECHNOLOGY TRANSFER TOOL TO EMPOWER RURAL COMMUNITIES - Wessels						



		P	DSTERS		O control d			CP ORAL	PRESENTATIONS		Construct
					Session 1 Agrometeorology,		Session 2  Conservation Agriculture,	-	Session 3		Session 4
	SASCP Poster Session 1		SASCP Poster Session 2		Adaptation, Breeding & Crop Modelling		Crop Protection, Weeds & Herbicides		Crop Nutrition & Water		Crop Physiology & Production
Num- ber		Number		Number	Title	Number	Title	Number	Title	Number	Title
C37	CALIBRATION AND VALIDATION OF THE DSSAT MODEL FOR DRY BEAN (PHASEOLUS VULGARIS) GROWTH - Mathobo	C53	THE EFFECT OF PLANT GROWTH PROMOTING RHIZOBACTERIA ON WHEAT GROWTH UNDER A CONTROLLED PHOSPHATE REGIME - Breedt, Gokul, Korsten, Labuschagne	C1	MODELLING CLIMATE CHANGE IMPACT ON DRYLAND WHEAT PRODUCTION IN SOUTH AFRICA USING GCM PROJECTIONS AND DSSAT MODEL: FREE STATE - Ajilogba, Walker	C9	DYNAMICS OF DIVERSIFI- CATION THROUGH CROP ROTATIONS - Louw, Strauss, Swanepoel, Van der Westhuizen	C20	EFFECT OF NITROGEN FERTILIZER AND SOIL MOISTURE LEVELS ON THE PERFORMANCE OF DROUGHT TOLERANT MAIZE ON FERRIC LUVISOL AND RHODIC FERRALSOL SOILS - Adebayo, Sebetha, Kutu	C27	NODULATION OF COMMON BEAN (PHASEOLUS VULGARIS L.) BY BACTERIAL SYMBIONTS ENDEMIC TO THE CAPE FYNBOS BIOME OF SOUTH AFRICA - Mpai, Jaiswal, Dakora
C38	CONCENTRATION DEPENDANT RESPONSE OF PHASEOLUS VULGARIS GERMINATION TO MEXICAN PRICKLY POPPY - Mlombo, Dube, Nxumalo, Ganyani, Mnyambo, Timana	C54	PHAKOSPORA PACHYYIRHIZI A KEY PEST IN SOYBEAN DISEASE COMPLEX - Dube, Shabalala, Ganyani	C2	ASSESSING THE POTENTIAL IMPACTS OF CLIMATE CHANGE IN BARLEY (HORDEUM VULGARE L.) GROWING AREAS IN SOUTH AFRICA - Madimabe, Van der Laan, Walker	C10	MORE THAN A DECADE OF MONOCULTURE VS CROP ROTATION IN SWARTLAND WHEAT FIELDS - WHAT HAPPENED IN THE SOIL? - Marais, Booyse, Botha	C21	NITROGEN FERTILISATION OF CANOLA (BRASSICA NAPUS L.) PRODUCED IN CONSERVATION AGRICULTURE SYSTEMS IN THE WESTERN CAPE, SOUTH AFRICA - Crous, Labuschagne, Swanepoel	C28	POTATO (SOLANUM TUBEROSUM L.) RESPONSE TO ELEVATED CARBON DIOXIDE AND TEMPERATURE - Steyn, Kiongo, Taylor, Franke
C39	ARGEMONE OCHROLEUCA SUPPRESSION OF MAIZE AND PEARL MILLET GERMINATION IS PLANT-PART DEPENDENT - Nxumalo, Ganyani, Timana, Mnyambo, Mlombo, Dube	C55	DRYBEAN YIELD UNDER THE INFLUENCE OF CULTIVAR, PHOSPHORUS FERTILIZER RATE AND LOCATION – Islam, Sebetha	C3	INVESTIGATING THE ECOLOGICAL INTENSIFICATION OF WHEAT (TRITICUM AESTIVUM L.) PRODUCTION USING LONG-TERM TRIAL DATA AND MODELLING - Magwaza, Van der Laan, Marais	C11	WHEAT PERFORMANCE AND QUALITY FOLLOWING DIFFERENT COVER CROP MIXTURES AND MANAGEMENT REGIMES - Smit, Strauss	C22	NITROGEN SOURCE EFFECTS ON CANOLA (BRASSICA NAPUS L.) GROWN UNDER CONSERVATION AGRICULTURE IN THE WESTERN CAPE, SOUTH AFRICA - Crous, Labuschagne, Swanepoel	C29	EFFECT OF FUNGICIDE APPLICATION ON POTATO CULTIVARS AT CEDARA - Arathoon
C40	THE QUANTITY OF NITROGEN AVAILABLE IN THE SOIL FOLLOWING LEGUME CROPS - Augustyn, Lombard, Strauss, Swanepoel	C56	FARMING UP THE CITY: ADDRESSING HIDDEN HUNGER THROUGH VEGETABLES - Khoza, Marais	C4	NOWCASTING DAILY MINIMUM CANOPY AND AIR TEMPERATURES FOR FROST: POSSIBLE? - Savage	C12	INTEGRATING LIVESTOCK AND CASH CROPS UNDER CONSERVATION AGRICULTURE: SHEEP BREED PERFORMANCE AND CORRELATION WITH WHEAT PRODUCTION - Smit, Strauss, Laubscher	C23	RESPONSE OF CANOLA (BRASSICA NAPUS L.) VARIETIES TO DIFFERENT LEVELS OF NITROGEN FERTILISER - Lombard, Strauss, Smorenburg	C30	RELATIONSHIPS BETWEEN YIELD AND YIELD COMPONENT TRAITS OF DROUGHT-TOLERANT MAIZE VARIETIES EXPOSED TO HEAT STRESS AND COMBINED HEAT AND WATER STRESS CONDITIONS - Chukwudi, Mavengahama, Kutu
C41	THE POTENTIAL OF MIXED COVER CROPS AS DRYLAND FODDER OR PASTURE - Engelbrecht, Strauss, Dube	C57	EFFECT OF CHICKEN MANURE AND MYCORRHIZAE INOCULANT ON THE ESTABLISHMENT, GROWTH DEVELOPMENT OF ROOIBOS PLANTS - Marais, Lotze, Botha, Van der Rijst	C5	CLIMATE-SMART AGRICULTURE (CSA) TRAINING FOR EXTENSION PRACTITIONERS IN THREE PROVINCES - Walker, Anderson, Maboa, Masekwana, Ngotho	C13	EFFECT OF CROP SEQUENCE ON SELECTED SOIL, YIELD AND ECONOMIC PARAMETERS - Strauss, Smit, Laubscher	C24	LEAF SCORCHING DUE TO FOLIAR APPLICATION OF SYNTHETIC ACID MINE DRAINAGE AND THE EFFECTIVENESS OF AN ANTI-TRANSPIRANT IN PROTECTING LEAVES - Mabuza, Annandale, Steyn, Tanner	C31	THE EFFECT OF PLANT DENSITY, ZINC ADDED TO PHOSPHORUS FERTILISER SOURCES AND LOCATION ON YIELD PERFORMANCE OF SOYBEAN - Gonyane, Sebetha
C42	SOIL CARBON SEQUESTRA- TION UNDER DIFFERENT CROP ROTATION SYSTEMS IN THE SWARTLAND REGION - Matthews, Swanepoel, Strauss	C58	GEOGRAPHIC DISTRIBUTION OF COLLECTED SORGHUM (SORGHUM BICOLOR (L.) MOENCH) AND MAIZE (ZEA MAYS L.) LANDRACES IN SOUTH AFRICA - Matelele	C6	ASSESSING THE IMPACT OF SILICON FERTILIZERS ON YIELD AND AGRONOMIC TRAIT ASSOCIATIONS IN WHEAT UNDER DROUGHT AND NON-STRESSED CONDITIONS - Christian, Shimelis, Laing, Tsilo	C14	CONSERVATION FARMING PRACTICES FOR POTATO PRO- DUCTION IN THE SANDVELD REGION OF SOUTH AFRICA - A FOUR YEAR STUDY - Van Zyl, Van Zyl	C25	THE TIMING OF NITROGEN FERTILIZER APPLICATION AND CULTIVAR ON MAIZE GROWTH PERFORMANCE UNDER DIFFERENT ENVIRONMENTAL CONDITIONS - Mashele, Sebetha	C32	MAIZE YIELD RESPONSES TO VARYING INPUT APPLICATION IN ON-FARM PRECI- SION EXPERIMENTATION - Maseko, Van der Laan, Meyer, Delport, Otterman, Edge, Tesfamariam
C43	COMPARING THE EFFECTS OF BIOCHAR ON THE ACTIVITY OF SELECTED SOIL ENZYMES UNDER A SINGLE SEASON OF WINTER GRAZED COVER CROPS - Musto, Strauss, Swanepoel	C59	SORGHUM GRAIN QUALITY AS INFLUENCED BY THE DIFFERENT NITROGEN FERTILIZER SOURCE, CULTIVAR AND FIELD CONDITION - Modisapudi, Sebetha	C7	GENETIC VARIATION OF MICRONUTRIENTS AND YIELD COMPONENT TRAITS IN DOUBLED HAPLOID BREAD WHEAT (TRITICUM AESTIVUM L.) LINES - Lephuthing, Tolmay, Baloyi, Tsilo	C15	EXPLORING THE LINKAGE BETWEEN NORTHERN CORN LEAF BLIGHT SEVERITY AND ROOT, CROWN AND STALK ROT OF THREE SOUTH AFRICAN MAIZE HYBRIDS - Craven, Morey, Abrahams, Janse van Rensburg, Njom	C26	THE WATER USE EFFICIENCY OF DRY- LAND GRAIN SORGHUM CULTIVARS AND COWPEA GROWN IN SOLE AND BINARY CULTURES UNDER DIFFERENT AGRO-ECOLOGICAL CONDITIONS - Mogale, Munjonji, Ayisi, Kifle	C33	EFFICIENCY OF RHIZOBIA STRAINS ON GROWTH, SELECTED MACRONUTRIENTS AND PROTEIN CONTENT OF CANCER BUSH (SUTHERLANDIA FRUTESCENS) - Masenya, Pofu, Mashela
C44	TACTICS TO FACILITATE LIME MOVEMENT IN NO-TILLAGE SYSTEMS - Pellissier, Labuschagne, Swanepoel, Hardie	C60	FARMER-LED DEMONSTRATION ON COM- PARATIVE EVALUATION OF SORGHUM GRAIN YIELD UNDER TWO INTER ROW SPACING IN A DRYLAND FARMING SYSTEM - Mokwatlo	C8	AGRONOMIC, GENETIC AND NUTRITIONAL CHARACTERIZATION OF NIGHTSHADE (SOLANUM SPP.) ACCESSIONS - Mabuza, Mokolobate, Mavengahama	C16	PROBING THE CHELATING ABILITY OF GLYPHOSATE IN FOLIAR NUTRIENT TANK MIX- TURES - Craven, Morey			C34	WHAT CHARACTERIZES WINNER AND LOSER SPECIES? EFFECTS OF SEVERE DROUGHT AND GRAZING ON A DRYLAND GRASSLAND - Mokoka, Ayisi, Behn, Linstädter, Mudongo, Ruppert
C45	ASSESSING THE USE OF EARTHWORMS AS BIOINDICA- TORS OF SOIL HEALTH IN A CONSERVATION AGRICULTURE SETTING IN THE WESTERN CAPE - Steyl, Jacobs, Strauss	C61	C ACCUMULATION AND 13C OF CROSS-NODULATED DIVERSE LEGUME SPECIES BY NATIVE RHIZOBIAL ISOLATES IN THE GLASSHOUSE - Msiza, Dakora, Mohammed			C17	EFFECT OF LONG-TERM INORGANIC FERTILIZER COM- BINATIONS ON WEED ABUNDANCE AND DIVERSITY IN MAIZE (ZEA MAYS L.) - Shabangu, Marais, Vorster			C35	EVALUATING THE IMPACT OF INOCULATION AND SEED DRESSING ON DOUBLED-UP LEGUME TECHNOLOGY - Phiri, Marais, Steyn
C46	EVALUATING FLOOD SUPPLE- MENTAL IRRIGATION SYSTEMS FOR IMPROVED PRODUC- TIVITY: A CASE STUDY OF LIMPOPO PROVINCE - Mawela, Mokgehle, Du Plooy, Senyolo	C62	EFFECT OF INTERCROPPING PATTERNS ON THE YIELD OF MAIZE AND SOYBEAN - Mtumtum			C18	WHEAT PRODUCTION FOLLOWING WEED MANAGEMENT BY COVER CROPS - Viljoen, Strauss, Swanepoel, Pieterse			C36	INFREQUENT TILLAGE PRACTICES CAN COMPENSATE FOR REDUCED SYNTHETIC AGROCHEMICAL APPLICA- TION IN A DRYLAND CROPPING SYSTEM - Tshuma, Rayns, Bennett, Labuschagne, Swanepoel
C47	FEASIBILITY ASSESSMENT OF SOLAR-POWERED GROUND- WATER PUMPING SYSTEMS IN RURAL AREAS OF GREATER GIYANI MUNICIPALITY (LIM- POPO PROVINCE) - Mpambo, Willoughby, Jovanovic, Phasha, Rikhotso, Petja	C63	EFFECTS OF PLANT GROWTH-PROMOTING RHIZOBACTERIA ON BAMBARA GROUNDNUT GERMINATION SUBJECTED TO DIFFERENT TEMPERATURE REGIMES - Nelwamondo, Kanu, Ntushelo, Mohale			C19	HERBICIDE RESISTANCE IN AMARANTHUS - A GROWING THREAT TO CROP PRODUC- TION IN SOUTH AFRICA - Vorster, Simelane, Reinhardt				
C48	IMPROVING CROP PRODUC- TIVITY WITH AN ORGANIC CROP ENHANCER - Raphela, Marais	C64	ENHANCEMENT OF SALT STRESS TOLERANCE IN WHEAT USING SILICON - Silwana, Van der Watt, Barnard								
C49	GENETIC DIVERSITY AND PHYLOGENY OF SYMBIOTIC RHIZOBIA ISOLATED FROM COMMON BEAN GENOTYPES AT MALKERNS, ESWATINI - Gunununu, Mohammed, Dakora	C65	THE INFLUENCE OF TIME OF INOCULATION OF RHIZOBIUM LEGUMINOSARUM AND MELOIDOGYNE ENTROLOBII ON RETAINED COWPEA CULTIVARS - Kgotse, Timana, Mnyambo, Khosa, Mbatyoti, De Waele, Dube								
C50	INFLUENCE OF PRECEDING CROPS ON THE PRODUCTION OF WHEAT, BARLEY AND CANOLA - Strauss, Langenhoven	C66	EFFICACY OF MAERUA ANGOLENSIS PLANT EXTRACT IN THE MANAGEMENT OF MELOIDO- GYNE INCOGNITA IN BAMBARA GROUNDNUTS RETAINED VARIETIES - Mnyambo, Timana, Kgotse, Khosa, Mbatyoti, De Waele, Dube								
C51	EFFECT OF GIBBERELLIC ACID AND POTASSIUM NITRATE SEED TREATMENTS ON EMERGENCE AND SEEDLING VIGOUR OF AMARANTH SPP. AND CLEOME GYNANDRA - Tapfumaneyi, Dube, Mavengahama, Ngezimana	C67	THE EFFECT OF CROP ROTATION AND TILLAGE PRACTICES ON FUSARIUM CROWN ROT OF WHEAT IN THE WESTERN CAPE - Theron, Van Coller, Labuschagne, Rose, Swanepoel								
C52	YIELD RESPONSE OF MAIZE HYBRIDS TO PLANTING DATE AND SEEDING RATE - Mbotho, Arathoon, Nunkumar	C68	ROOTSTOCK EFFECTS ON QUALITY PARAMETERS, BIOACTIVE COMPOUNDS, AND ANTIOXIDANT PROPERTIES OF CANTALOUPE MELONS (CUCUMIS MELO.L.) - Lecholocholo, Manhivi, Maboko, Shoko, Sivakumar								
		C69	EFFECT OF PHOSPHORUS FERTILIZER SOURCE AND CULTIVAR ON QUALITY OF DRYBEAN UNDER DIFFERENT ENVIRON- MENTAL CONDITIONS - Mfanta, Sebetha								
		070	THE INFLUENCE OF LIGHT EMITTING DIODES ON THE POSTHARVEST AND DIETARY QUALITY OF FRESH CORIANDER LEAVES - Tlhako, Shoko, Vimbainashe, Sivakumar								

# **Second Week of Combined Congress 2022**

LIVE SESSIONS										
	25 January 2022	26 January 2022	27 January 2022							
09:00 - 10:15	SASHS - Keynote	SSSSA - Keynote	SASCP - Keynote							
	PROF WIEHANN STEYN - ACADEMIA AND INDUSTRY PARTNERING INTO THE FUTURE	PROF DONALD SPARKS - THE WATER, CLIMATE, SOIL AND FOOD NEXUS: GRAND CHALLENGES IN A CHANGING ENVIRONMENT	DR CHLOE MACLAREN - T HE PAST, PRESENT AND FUTURE OF LONG-TERM AGRICULTURAL EXPERIMENTS							
10:30 - 11:30	SASHS - Q&A Session 1	SSSSA - Q&A Session 2	SASCP - Q&A Session 3							
	Biotechnology, Breeding, Propagation, Nutrition, Water Mangement & Crop Protection (and all posters)	Soil Biology & Fertility (orals & posters)	Crop Physiology & Production							
12:00 - 13:00	SSSSA - Q&A Session 1	SASCP - Q&A Session 2	SASHS - Q&A Session 3							
	Soil Classification & Mapping (orals & posters)	Conservation Agriculture, Crop Protection, Weeds & Herbicides	Indigenous, Medicinal Plants; New & Alternative Crops; Physiology & Post-Harvest Biology							
13:30 - 14:30	SASCP - Q&A Session 1	SASHS - Q&A Session 2	SSSSA - Q&A Session 3							
	Agrometeorology, Adaptation, Breeding & Crop Modelling	Production & Cultivation Practices	Soil Physics & Technology (orals & posters)							
15:00 - 16:30	AGM - SASHS	AGM - SSSSA	AGM - SASCP							



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