

| SUNDAY 27 SEPTEMBER 2009 | |
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| 14:00 - 18:00 | Registration |
| | |
| MONDAY 28 SEPTEMBER 2009 | |
| 07:30 - 10:00 | Registration |
| Opening and Plenary Session - Chairman Dr GD Joubert | |
| 09:30 - 09:35 | Opening - Dr GD Joubert(Chairman: Local Organizing Committee) |
| 09:35 - 09:45 | Welcoming address- Prof Kasem Zaki Ahmed (President of the ACSS) |
| 09:45 - 10:15 | Opening address - Ms Helen Zille (Premier of the Western Cape Province) |
| 10:15 - 10:45 | Tea/Coffee Break |
| 10:45 - 11:15 | Keynote Address - Prof Mohammad Karaan - PERSPECTIVES ON SCIENCE AND TECHNOLOGY SUPPORTING FOOD SECURITY IN AFRICA |
| 11:15- 11:45 | Keynote Address - Prof Stephen Baenziger - THE FUTURE OF PLANT BREEDING |
| 11:45 - 12:15 | Keynote Address - Prof Agnes Mwang'ombe - FOOD AND NUTRITION SECURITY AND POVERTY ISSUES IN EASTERN AND CENTRAL AFRICA: STILL A CHALLENGE TO THE REALIZATION OF MILLENNIUM DEVELOPMENT GOALS |
| 12:15 - 12:30 | Announcements - Dr GD Joubert |
| 12:30 - 14:00 | Lunch Break |

Session 1 - Monday 28 September 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|--------------------|---|---|---|--|
| Chairperson | Dr Mark Hardy | Dr Diana Marais | Prof Agnes Mwan'ombe | Prof Nagib Nasser |
| Subject | Agronomy - General | Horticulture | Plant protection - Nematology | Cassava |
| 14:00 - 14:25 | 1 KEYNOTE LECTURE POTENTIAL CONSEQUENCES OF CLIMATE CHANGE TO CROP PRODUCTION IN AFRICA - P Johnston | 4 EVALUATION OF HEAD YIELD AND PARTICIPATORY VARIETY SELECTION OF HORTICULTURAL TRAITS AMONG CABBAGES (<i>Brassica oleraceae</i> var <i>capitata</i>) IN ARUSHA, TANZANIA - OT Adeniji | 7 KEYNOTE LECTURE CONTROL STRATEGIES TO MANAGE ROOT-KNOT NEMATODES IN CROPPING SYSTEMS IN SOUTH AFRICA - H Fourie | 10 KEYNOTE LECTURE GRAFTING CASSAVA BY WILD SPECIES SCION: POTENTIALITY FOR IMPROVING THE CROP - N Nassar |
| 14:25 - 14:45 | 2 MEDIUM TERM WEATHER FORECAST CONSISTENCY AND RESPONSE FARMING - EAR Mellaart | 5 WATER USE EFFICIENCY OF SIX AFRICAN LEAFY VEGETABLES - YG Beletse | 8 AMELIORATION OF NEMATODE PARASITISM ON COCOA (<i>Theobroma cacao</i> L.) SEEDLINGS WITH POULTRY LITTER AS SOIL AMENDMENT IN THE NURSERY AND DURING FIELD ESTABLISHMENT - SO Afolami | 11 GARI YIELD AND CHEMICAL COMPOSITION OF CASSAVA ROOTS STORED USING TRADITIONAL METHODS - OR Karim |
| 14:45 - 15:05 | 3 DEVELOPMENT OF MAIZE VARIETIES FOR THE MARGINAL RAINFALL AREAS OF SOUTHWEST NIGERIA - MAB Fakorede | 6 PARASITIDS OF THE DIAMONDBACK MOTH, PLUTELLA XYLOSTELLA (L.) (LEPIDOPTERA: PLUTELLIDAE) ON BRASSICAS IN ZIMBABWE – W Manyangarirwa. | 9 EVALUATION OF PLANT EXTRACTS IN THE MANAGEMENT OF THE ROOT-KNOT NEMATODE, <i>Meloidogyne incognita</i> ON COWPEA (<i>Vigna unguiculata</i> (L) WALP). - AO Claudius-Cole | 12 AGRONOMIC EVALUATION OF NEW CASSAVA VARIETIES INTRODUCED TO FARMERS IN NIGERIA - SA Odedina |
| 15:05 - 15:30 | Tea/Coffee Break | | | |
| 15:30 - 15:50 | 13 CROP-CLIMATE MATCHING FOR SOUTH-WESTERN FREE STATE - GNC Zuma-Netshiukhwi | 17 EFFECT OF STEM AND FRUIT PRUNING ON YIELD AND QUALITY OF HYDROPONICALLY GROWN TOMATO - MM Maboko | 21 RESPONSES OF FOUR MONOCOTYLEDONOUS CROPS TO CRUDE EXTRACTS OF <i>Cucumis myriocarpus</i> FRUITS AS A PRE-EMERGENT BIO-NEMATOCIDE - PW Mashela | 23 GENETIC VARIABILITY AMONG FORTY THREE CASSAVA GENOTYPES IN THREE AGRICULTURAL ZONES OF NIGERIA - O Akinyele |
| 15:50 - 16:10 | 14 AGRO-CLIMATE INFORMATION SYSTEM OF THE AGRICULTURAL GEO-REFERENCED INFORMATION SYSTEM (AGIS) - HL Lindemann | 18 INFLUENCE OF PLANTING DATE AND ORGANIC FERTILISATION ON GROWTH AND YIELD OF SOUTH AFRICAN TARO LANDRACES - RM Mare | 22 EVALUATION OF CACAO (<i>Theobroma cacao</i> L.) CLONES FOR RESISTANCE TO A ROOT KNOT-NEMATODE, <i>Meloidogyne incognita</i> (KOFOID AND WHITE) CHITWOOD - SO Afolami | 24 PROMOTING FARMER PARTICIPATION IN PLANT BREEDING: LESSONS FROM PARTICIPATORY BREEDING FOR SUPERIOR CASSAVA VARIETIES IN GHANA - JA Manu-Aduening |
| 16:10 - 16:30 | | 19 PRODUCTION OF RAPE (<i>Brassica napus</i> L.) ON SOILS AMENDED WITH MULTIPURPOSE TREE LEAVES - F Muचेcheti | 164 MAIZE SUBSIDY PROGRAMME IN MALAWI. IS CROP PROTECTION INCLUDED? – VW Saka | 25 EFFECT OF PRESIDENTIAL INITIATIVE ON CASSAVA ON HOUSEHOLD FOOD SECURITY STATUS IN IWO ZONE OF OSUN STATE AGRICULTURAL DEVELOPMENT PROGRAMME - OA Awoniyi |
| 16:30 - 16:50 | 16 THE EFFECT OF IRRIGATION ON GROWTH AND PRODUCTION PERFORMANCE OF SWEET POTATO VARIETIES - RN Laurie | 20 THE EFFECT OF SPACING, TRANSPLANTING TIME AND HARVESTING METHODS ON AMARANTHS (<i>Amaranthus cruentus</i>) PRODUCTION - NS Mulandana | 166 THE RESPONSES OF <i>CUCUMIS AFRICANUS</i> TO <i>MELOIDOGYNE INCOGNITA</i> RACE 2 INFECTION - KM Pofu | 174 GENOTYPING UGANDAN CASSAVA BREEDING POPULATIONS USING SSR MARKERS ASSOCIATED WITH RESISTANCE TO CASSAVA MOSAIC DISEASE - K Amuge |

TUESDAY 29 SEPTEMBER 2009

Session 2 - Tuesday 29 September 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|--------------------|--|---|---|--|
| Chairperson | Dr Martin Steyn | Prof Puffy Soundy | Dr Cyrus Githunguri | Prof Stephen Baenziger |
| Subject | Agronomy | Horticulture | Rural and socio economics | Crop Genetics and Biotechnology |
| 08:30 - 08:55 | 26 KEYNOTE LECTURE RAINFED FARMING SYSTEMS IN SOUTH AFRICA - MB Hardy | 31 WEED FLORA OF INDIAN SPINACH (<i>Basella alba</i> L.) IN AN ENRICHED HUMID TROPICAL ENVIRONMENT - MAK Smith | 36 KEYNOTE LECTURE OVERCOMING RESOURCE POOR AGRICULTURE: IMBALANCES UNDERMINE INTENTION - FO Hobson | 41 PEAR BREEDING IN SOUTH AFRICA - JP Human |
| 08:55 - 09:15 | 27 ASSESSMENT OF MAIZE AND DRY BEAN PRODUCTIVITY UNDER DIFFERENT INTERCROPPING SYSTEMS AND FERTILIZATION REGIMES - FR Kutu | 32 EFFECTS OF GRADED LEVELS OF NITROGEN ON GROWTH AND YIELD OF EGG PLANT (<i>Solanum melongena</i>) IN KABBA, SOUTHERN GUINEA SAVANA ECOLOGICAL ZONE OF NIGERIA - JA Oloniruha | 38 FARMERS' ATTITUDES AND ADOPTION OF IMPROVED MAIZE VARIETIES AND CHEMICAL FERTILIZERS IN MOZAMBIQUE - E Cavane | 42 BIOSAFETY CAPACITY BUILDING PROJECT FOR SUB-SAHARAN AFRICA - D Obonyo |
| 09:15 - 09:35 | 28 EXPLORING MUCUNA MANAGEMENT OPTIONS AND N FERTILIZER RATES TO MAXIMIZE MAIZE PRODUCTIVITY ON A DEPLETED KAOLINITIC SANDY SOIL IN ZIMBABWE - MD Shoko | 33 ETHNO-BOTANY AND MORPHOLOGICAL CHARACTERIZATION OF YAM PONA COMPLEX IN GHANA - E Otoo | 39 IMPROVED MAIZE SEED FOR THE POOR: COST AND EFFICACY OF A PILOT VOUCHER PROGRAM - B Munyua | 43 INTROGRESSING GENES CONFERRING RESISTANCE TO ANGULAR LEAF SPOT AND ANTHRACNOSE IN COMMON BEAN LANDRACES SOUTHERN HIGHLANDS OF TANZANIA - R Mongi |
| 09:35 - 09:55 | 29 THE EFFECTS OF STRATEGIC NITROGEN FERTILISER APPLICATION DURING THE COOL SEASON ON THE DRY MATTER PRODUCTION OF A PERENNIAL RYEGRASS-WHITE CLOVER PASTURE AT THE OUTENIQUA EXPERIMENTAL FARM, SOUTHERN CAPE - J Labuschagne | 34 STUDIES ON THE EFFECTS OF CONTINUOUS HARVESTING AND NON HARVESTING; DECAPITATION AND NON DECAPITATION ON FRUIT YIELD OF EARLY AND LATE OKRA (<i>Abelmoschus esculentus</i> AND <i>Abelmoschus caillei</i>) CULTIVARS IN SOUTH EASTERN NIGERIA- OS Udengwu | 40 FEASIBILITY OF COMMERCIAL PRODUCTION OF AMARANTH (<i>Amaranthus</i> <i>hypochondriacus</i>) LEAF VEGETABLE BY SMALL- SCALE FARMERS IN KENYA - CM Onyango | |
| 09:55 - 10:15 | 30 PRODUCTIVITY AND WEED SUPPRESSION IN MAIZE – PUMPKIN INTERCROPS IN SMALL SCALE FARMING COMMUNITIES OF ZIMBABWE - EK Maereka | 35 EVALUATION OF GLADIOLUS CUT- FLOWER CULTIVARS IN NORTH-WESTERN KENYA - HM Wambani | 165 FOOD SECURITY ANALYSIS: AGRICULTURAL POLICY MEASURES AND ITS CONSTRAINTS IN PAKISTAN - M Joyo | 45 COMBINING ABILITY OF EARLY QUALITY PROTEIN MAIZE (QPM) INBRED LINES ADAPTED TO THE MID-ALTITUDE ECOLOGY OF EAST AFRICA - S Assanga |
| 10:15 - 10:45 | Tea/Coffee Break | | | |

Session 3 - Tuesday 29 September 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|---------------|---|---|---|---|
| Chairperson | Dr Johan Labuschagne | Dr Johann Strauss | Mr Felix Hobson | Mr Taaibos Human |
| Subject | Agronomy | Soil Science | Rural and Socio Economics | Crop Genetics and Biotechnology |
| 10:45 - 11:05 | 46 EFFECTS OF NITROGEN FERTILIZER APPLICATION AND PLANT POPULATION DENSITY ON GROWTH, YIELD AND HARVEST INDEX (HI) OF CHICKPEA (<i>Cicer arietinum</i> L.) UNDER DRYLAND CONDITIONS, KENYA - TE Akuja | 51 COMPARATIVE STUDY OF CLAY AND ORGANIC MATTER CONTENT OF TERMITE MOUNDS AND THE SURROUNDING SOILS USING GEOGRAPHIC INFORMATION SYSTEMS (GIS) BUFFERING TECHNIQUE - FO Adekayode | 56 THE IMPACT OF IMPROVED FORAGE TECHNOLOGIES OF PROFITABILITY OF DAIRY ENTERPRISES AND FACTORS AFFECTING UTILIZATION OF TECHNOLOGIES - J Kabirizi | 61 VARIATION IN DIPLOID (AA) AND TETRAPLOID (AAAA) BANANA POPULATIONS FOR BLACK SIGATOKA RESISTANCE AND AGRONOMIC TRAITS - A Barekye |
| 11:05 - 11:25 | 47 DEVELOPMENT OF MOLECULAR BASED SYSTEMS FOR RESISTANCE BREEDING AGAINST <i>Colletotrichum sublineolum</i> IN SORGHUM - P Okori | 52 AN OVERVIEW OF INTEGRATED SOIL FERTILITY MANAGEMENT STRATEGIES FOR SOUTHERN AFRICA: THE CASE FOR MALAWI – C K Phiri | 57 CHANGES IN RESPONSE TO INTEGRATED INTERVENTIONS IN THE VALUE CHAIN OF VEGETABLE AT ATSBI-WOMBERTA, ETHIOPIA - G Woldewahid | 62 DEVELOPMENT OF NEW SWEET SORGHUM VARIETIES AT THE UNIVERSITY OF KWAZULU-NATAL: I. QUANTIFICATION OF GENOTYPIC VARIABILITY FOR STEM SUGAR ACCUMULATION AND ASSOCIATED TRAITS - I Makanda |
| 11:25 - 11:45 | 48 RESPONSE OF BARLEY PLANTS TO ORGANIC MANURE AND NITROGEN FERTILIZATION UNDER LIBYAN SOILS CONDITION - O.A Altoumi | 53 PHYSICO - CHEMICAL AND DYNAMIC PROPERTIES OF TERMITE MOUND SOIL (TMS) RELEVANT IN SUSTAINABLE FOOD PRODUCTION - SI Manuwa | 58 THE POTENTIAL OF POTATO (<i>Solanum tuberosum</i> L.) FARMING IN IMPROVING THE LIVELIHOODS OF SMALL SCALE FARMERS IN MALAWI - P Demo | 63 REGULATIONS FOR GENETICALLY MODIFIED CROPS IN AFRICA: EFFORTS TOWARDS HARMONIZATION - F Nang'ayo |
| 11:45 - 12:05 | 49 EFFECT OF INORGANIC AND ORGANIC BASED FERTILIZERS ON GROWTH PERFORMANCE OF TEA AND COST IMPLICATIONS IN KUSUKU, NIGERIA - RR Ipinmoroti | 54 INFLUENCE OF APPLIED NITROGEN-FORM (NO ₃ - VS. NH ₄ +) ON N UPTAKE AND TRANSFER OF THE EXTRARADICAL MYCELIUM OF THE AMF FUNGUS <i>Glomus intraradices</i> IN SYMBIOSIS WITH COWPEA - B Ngwene | 59 PAST RESEARCH ACHIEVEMENTS ON COFFEE NUTRITION IN NIGERIA: CONSTRAINS AND FUTURE FOCUS - C Iloyanomon | 64 MOLECULAR CHARACTERIZATION OF COWPEA BREEDING LINES FOR STRIGA RESISTANCE USING FTA TECHNOLOGY - LO Omoigui |
| 12:05 - 12:25 | 50 OPPORTUNITIES FOR SUSTAINABLE CROP PRODUCTION: CONTRIBUTIONS FROM SELECTED ORGANIC SOURCES - E Yeboah | 55 A MANUAL ON INTEGRATED SOIL FERTILITY MANAGEMENT IN AFRICA - P Woomeer | 60 INFLUENCE OF FARMERS PRACTICES ON COCOA BEAN QUALITY – NIGERIA FIELD EXPERIENCE - LN Dongo | 65 IMPEDIMENTS TO NEW IMPROVED MAIZE VARIETY TESTING AND RELEASE IN SELECTED COUNTRIES IN SUB-SAHARAN AFRICA - PS Setimela |
| 12:25 - 14:00 | Lunch Break | | | |

Session 4 - Tuesday 29 September 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|--------------------|--|--|--|---|
| Chairperson | Prof Richard Awah | Dr Paul Woomeer | Prof William Mashela | Dr Frances Olubayo |
| Subject | Agricultural Economics | Soil Science | Rural and socio economics/Plant protection | Crop Genetics and Biotechnology |
| 14:00 - 14:20 | 66 MODELLING OPTIMAL STORAGE: METAL SILOS IN KENYA - SC Kimenju | 71 NITROGEN BASED SLUDGE LAND APPLICATION IMPACTS ON <i>Eragrostis curvula</i> PRODUCTION AND SOIL PHOSPHORUS ACCUMULATION - EH Tesfamariam | 74 INDIGENOUS TEHNOLOGIES IN COCOYAM PROCESSING: IMPLICATIONS FOR FOOD SECURITY IN NIGERIA - PI Oyata | 79 DETERMINATION OF SELECTION CRITERIA FOR SEED YIELD AND SEED OIL CONTENT IN VERNONIA (<i>Vernonia galamensis</i> VARIETY Ethiopica) - H Shimelis |
| 14:20 - 14:40 | 67 COSTS AND EFFICACY OF OPERATING COFFEE HAND PULPERS IN ETHIOPIA: A COST-BENEFIT ANALYSIS - RO Musebe | 72 THE EFFECT OF ROW SPACING ON SOIL PH AND NUTRIENT UPTAKE IN SUGARCANE - MA Smit | 75 EX ANTE ASSESSMENT OF DUAL-PURPOSE SWEET POTATO IN THE CROP-LIVESTOCK SYSTEM OF WESTERN KENYA: A MINIMUM-DATA APPROACH - L Claessens | 80 GRAIN YIELDS OF RUST RESISTANT PROMISCUOUS SOYBEAN LINES IN THE GUINEA SAVANNA OF NIGERIA - H Tefera |
| 14:40 - 15:00 | 68 INTRODUCING CONSERVATION AGRICULTURE TECHNOLOGY TO FARMER GROUPS FOR SUSTAINED PRODUCTIVITY IN MKURANGA AND BAGAMOYO DISTRICTS OF TANZANIA - GC Chipungahelo | 73 THE POTENTIAL OF CONSERVATION AGRICULTURE SYSTEMS TO MITIGATE THE EFFECTS OF CLIMATE CHANGE IN ZAMBIA AND ZIMBABWE - C Thierfelder | 76 INTEGRATED PEST MANAGEMENT TRAINING AND INFORMATION FLOW AMONG SMALLHOLDER HORTICULTURE FARMERS IN KENYA - N Bekele | 81 RECURRENT SELECTION FOR STRIGA RESISTANCE IN EARLY AND EXTRA-EARLY MAIZE POPULATIONS IN WEST AFRICA - MAB Fakorede |
| 15:00 - 15:20 | 69 IMPROVING HOUSEHOLD FOOD SECURITY AMONG SMALL-SCALE FARMERS IN THE MORETELE WARD OF THE MPUMALANGA PROVINCE, SOUTH AFRICA - MC Matlou | AAAPD SYMPOSIUM | 77 ADAPTABILITY OF COTTON INTEGRATED PEST MANAGEMENT STRATEGIES FOR SMALL SCALE FARMERS IN MORRUMBALA, MOZAMBIQUE - L Santos | 82 DEVELOPMENT AND EVALUATION OF THREE WAY CROSS MAIZE HYBRIDS RESISTANT TO <i>Chilo partellus</i> AND <i>Busseola fusca</i> STEM BORERS IN MID-ALTITUDE ECOLOGIES OF KENYA - H Karaya |
| 15:20 - 15:40 | 70 TOWARDS SUSTAINABLE STRATEGIES AND TACTICS FOR EXTENSION RECOVERY - KS Mudau | AAAPD SYMPOSIUM | 78 THE STATUS OF BANANA XANTHOMONAS WILT (<i>Xanthomonas campestris</i> PV <i>Musacearum</i>) IN WESTERN KENYA - JN Mbaka | 83 STABILITY ANALYSIS OF GRAIN YIELD AND <i>Stenocarpella</i> EAR ROT RESISTANCE AMONG MAIZE INBRED LINES AND TOP CROSS HYBRIDS - L Moremoholo |
| 15:40 - 16:10 | Tea/Coffee Break | | | |
| 16:10 - 18:00 | General assembly | AAAPD SYMPOSIUM | | |

WEDNESDAY, 30 SEPTEMBER 2009

Session 5 - Wednesday 30 September 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|--------------------|---|---|--|--|
| Chairperson | Dr PJ Pieterse | Ms Jeannie van Biljon | Ms Annalene Swanepoel | Dr Luisa Santos |
| Subject | Weed science | Crop improvement/Plant protection | Biodiversity and Natural Resources | Plant Protection |
| 08:30 - 08:55 | 84 KEYNOTE LECTURE STRATEGIES FOR WEED CONTROL TO INCREASE SUSTAINABLE CROP PRODUCTION IN AFRICA - KP Sibuga | 89 EVALUATION OF SOME FACTORS AFFECTING YIELD AND REVENUE OF COCOA AT THE COCOA RESEARCH INSTITUTE OF NIGERIA, MAIN STATION, ONIGAMBARI, A CASE STUDY - EO Aigbekean., | 94 KEYNOTE LECTURE AGRICULTURAL GEO-REFERENCED INFORMATION SYSTEM (AGIS) - H Lindeman | 99 KEYNOTE LECTURE CROP PROTECTION STRATEGIES FOR SUSTAINABLE CROP PRODUCTION IN AFRICA - FM Olubayo |
| 08:55 - 09:15 | 85 INFLUENCE OF TILLAGE AND WEED MANAGEMENT METHOD ON ECOLOGICAL WEED GROWTH IN MAIZE (<i>Zea mays</i> L.) - MAK Smith | 90 EVALUATION AND IDENTIFICATION OF MAIZE HYBRIDS ADAPTED TO THE SOUTHERN AND NORTHERN GUINEA SAVANNA OF NIGERIA - OA Ibikunle | 95 SEED REGENERATION PRACTICES AT THE SOUTHERN AFRICA PLANT GENETIC RESOURCES CENTRE - L Qhobela | 100 THE INCIDENCE AND DISTRIBUTION OF <i>Phytophthora cinnamomi</i> RANOS ON MACADAMIA IN KENYA - JN Mbaka |
| 09:15 - 09:35 | 86 PHYTOTOXICITY EFFECT OF FOUR HERBICIDES IN IRRIGATION WATER ON BUSH BEAN SEEDLINGS - TF Chiconela | 91 BREEDING IMPROVED VARIETIES OF SUGARCANE IN NIGERIA AND CHALLENGES FOR A SUSTAINABLE CANE OR SUGAR PRODUCTION - EH Kwon-Ndung | 96 THE PROTECTION OF AGRICULTURAL LAND THROUGH THE USE OF SUPPORTING INFORMATION SYSTEMS - A Collet | 101 CABBAGE PRODUCTION AND BLACK ROT DISEASE MANAGEMENT BY SMALL HOLDER FARMERS IN SOUTHERN MOZAMBIQUE - J Bila |
| 09:35 - 09:55 | 87 NITROGEN FERTILIZATION AND CULTIVAR EFFECTS ON THE PERFORMANCE OF EARLY AND LATE MATURING MAIZE UNDER NATURAL INFESTATION WITH <i>Striga hermonthica</i> (DEL.) BENTH - AY Kamara | 92 BOTANICAL ADJUVANTS FOR FUNGICIDE RESIDUE MANAGEMENT IN CROPS - J Klaasen | 97 GROUND MEASUREMENT OF NDVI, A TOOL FOR IDENTIFICATION OF DESIRABLE GRASS SPECIES - P Shaker | |
| 09:55 - 10:15 | 88 STRIGA IN MOZAMBIQUE : A FIRST APPROACH TO ITS STUDY - RA Massinga | 93 DIVERSITY OF DNA SATELLITE MOLECULES ASSOCIATED WITH SOME MONOPARTITE BEGOMOVIRUSES IN THE EQUATORIAL RAIN FOREST REGION OF CAMEROON - WN Leke | 98 THE USE OF PLANT INFORMATION SYSTEMS AS A TOOL IN THE CROP FARMING ENTERPRISE - P Avenant | 103 EVALUATION OF SOME YAM RHIZOBACTERIA FOR FUNGICIDAL ACTIVITY - R Awuah |
| 10:15 - 10:45 | Tea/Coffee Break | | | |

Session 6A - Wednesday 30 September 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|---------------|---|--|--|---|
| Chairperson | Dr Michiel Smit | Prof Kasem Zaki Ahmed | Dr Patrick Okori | Dr Alassa Mouliom Pefoura |
| Subject | Crop production | Crop improvement/Plant protection | Agronomy/Rural and socie-economics | Plant protection |
| 10:45 - 11:05 | 104 INTERACTIVE EFFECTS OF ROW SPACING ON WEED INFESTATION, AND YIELDS OF FOUR COWPEA VARIETIES - JAN Asiwe | 109 ANTIFUNGAL ACTIVITY OF VARIOUS CRUDE PLANT EXTRACTS AGAINST <i>Phaeoisariopsis griseola</i> PATHOGENIC ON COMMON BEAN - IN Wagara | 147 GENETIC DIVERSITY AND PHYLOGENY OF INDIGENOUS Bradyrhizobium STRAINS NODULATING PROMISCUOUS SOYABEAN VARIETIES GROWN IN LOWLAND AND HIGHLAND SITES IN KENYA - VW Wasike | 114 REACTIONS OF <i>Nicotiana</i> SPECIES TO CASSAVA BROWN STREAK VIRUS IN UGANDA - B Bua |
| 11:05 - 11:25 | 105 RESPONSE OF <i>Amaranthus tricolor</i> AND <i>Cleome gynandra</i> TO FERTILIZER APPLICATION- PC Modisane | 110 KEY CONSIDERATIONS FOR SEED COMPANY ESTABLISHMENT AND MANAGEMENT IN AFRICA - JF MacRobert | 148 SYMBIOTIC EFFICACY OF TWO SOYBEAN GENOTYPES INOCULATED WITH Bradyrhizobium japonicum WB74 STRAIN NAMPULA, MOZAMBIQUE - RM Mashakoe | |
| 11:25 - 11:45 | 106 USING SIMULATION TO ESTIMATE YIELD POTENTIAL AND DESIGN SMALLHOLDER FARMING SYSTEMS FOR LIMPOPO PROVINCE, RSA - AM Whitbread | 111 DYNAMICS OF SEED REGULATION AND ITS IMPACT ON FOOD SECURITY IN AFRICA - GO Omany | 154 STRENGTHENING AGRICULTURAL CAPACITY FOR DEVELOPMENT IN SUB-SAHARAN AFRICA: THE RUFORUM COMPETITIVE GRANT SYSTEM - M Osiru | 116 OCCURRENCE AND DETECTION OF PASSION FRUIT VIRUS DISEASES BY ELISA AND RT-PCR METHODS IN KENYA - DC Kilalo |
| 11:45 - 12:05 | 107 BIOFUELS FROM INDIGENOUS ENERGY CROPS: A FEASIBILITY STUDY - J Klaasen | 112 PHYSICO-CHEMICAL METHODS FOR PRESERVATION OF OPUNTIA CACTUS FRUIT SYRUP: EMPOWERMENT OF MAASAI WOMEN IN LAIKIPIA, KENYA - CN Kunyanga | 155 ENGAGING SCIENTISTS IN BIOSECURITY - AN AFRICAN PERSPECTIVE - E. Kenya | 117 QUANTIFICATION OF THE EFFECTS OF ROGUING ON GROWTH AND TUBER YIELDS OF SWEETPOTATOES FROM UGANDA - B Bua |
| 12:05 - 12:25 | 108 <i>Jatropha curcas</i> OIL PRODUCTION FOR LOCAL DEVELOPMENT IN MOZAMBIQUE - F Nielsen | 113 ACCEPTABILITY AND SENSORY EVALUATION OF MAIZE AND COWPEA PRODUCTS STORED WITH SOME ESSENTIAL OILS - CO Okunola | 156 A COMAPRISON OF HOSAKA AND DJ KIM WHATMANN PAPER PROTOCOLS FOR RAPID ISOLATION OF COWPEA DNA COWPEA BREEDING PROGRAMS - M. Yusuf and S. Muranaka | 118 STUDIES ON ONION BULB YIELD AND QUALITY AS INFLUENCED BY PLANT DENSITY IN ORGANIC AND INTENSIVE CROPPING SYSTEMS IN THE GAMBIA (WEST AFRICA) - A. Seck |
| 12:25 - 14:00 | Lunch Break | | | |

| Session 6B - Wednesday 30 September 2009 | | | | |
|--|--|--|--|--|
| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
| Chairperson | Prof Bamidele Fawole | Dr John Tenywa | Dr Diana Earnshaw | Dr Mick Mwala |
| Subject | Crop improvement | Agronomy/Soil science | Agronomy | Agronomy/Plant protection |
| 14:00 - 14:20 | 180 HETEROSIS IN SINGLE CROSSES OF QUALITY PROTEIN MAIZE (ZEA MAYS L.) – M Yusuf | 187 OPPORTUNITIES FOR BANANA (MUSA) IN ALLEVIATING MICRONUTRIENT DEFICIENCY IN THE GREAT LAKES REGION OF EAST AFRICA - R Fungo | 194 THE COMPARATIVE STUDY OF THE STARCH COMPONENT OF MAIZE, WHEAT, SWEET POTATO AND CASSAVA - S Ladokun | 186 THE POTENTIAL IMPROVEMENT OF GROWTH AND PRODUCTION IN THE MUNG BEAN USING INOCULATION PHOSPHATE-DISSOLVING BACTERIA - K Ghanem |
| 14:20 - 14:40 | 195 PHYSICOCHEMICAL AND FUNCTIONAL CHARACTERISTICS OF CASSAVA STARCH FROM NINE UGANDAN LOCAL AND INTRODUCED VARIETIES AND THEIR PROGENIES - E Nuwamanya | 184 EFFECT OF ORGANIC AND INORGANIC NUTRIENT SOURCES ON MAIZE YIELD AND YIELD COMPONENTS IN NANDI DISTRICT, RIFT VALLEY PROVINCE - L Nakhone | | 190 OCCURRENCE OF SWEETPOTATO WEEVIL AMONG SWEETPOTATO CULTIVARS IN THE HIGH POTENTIAL HIGHLANDS OF RIFT VALLEY - EW Macharia |
| 14:40 - 15:00 | 188 EVALUATION OF WHEAT GENOTYPES FOR IMPROVED DROUGHT TOLERANCE THROUGH INCREASED SEEDLING VIGOUR IN KENYA - P Ooro | 185 ORGANIC SOIL FERTILITY AMENDMENTS AND TRITROPHIC RELATIONSHIPS ON CABBAGE IN UGANDA: EXPERIENCES FROM ON-STATION AND ON-FARM TRIALS - J Karungi | 192 EFFECTS OF VALUE ADDITION TO CASHEW FRUITS ON HOUSEHOLD INCOME AMONG CASHEW FARMERS IN NIGERIA - J Lawal | 191 DIFFERENTIAL RESISTANCE OF INTERNATIONAL WHEAT LINES TO KENYAN <i>Diuraphis noxia</i> BIOTYPES - J Malinga |
| 15:00 - 15:20 | 182 DIVERSITY OF SELECTED MACADAMIA ACCESSIONS IN KENYA AND PROSPECTS FOR ENHANCED BREEDING - LM Gitonga | 115 INFLUENCE OF <i>MORINGA OLEIFERA</i> LEAF EXTRACTS ON GERMINATION AND SEEDLING SURVIVAL OF THREE COMMON LEGUMES IN ZAMBIA – C Phiri | 189 DETERMINATION OF LOCATION SPECIFIC AGRONOMIC AND ECONOMIC RECOMMENDATIONS FOR A MAIZE-BASED FARMING SYSTEM IN KENYA - CN Macharia | 181 INTEGRATING INDIGENOUS AND EXOGENOUS COMMUNICATION CHANNELS AND CAPABILITIES THROUGH COMMUNITY-BASED ARMYWORM FORECASTING TO SAVE FARMERS' CROPS - R Musebe |
| 15:20 – 15:40 | 44 VARIATIONS IN THE CP, C2 AND C3 GENES OF BEGOMOVIRUSES INFECTING TOBACCO AND HONEYSUCKLE IN JAPAN - H.K. Were | 102 ASSESSING THE POTENTIAL BENEFITS OF ORGANIC AND MINERAL FERTILIZER COMBINATIONS ON LEGUME PRODUCTIVITY UNDER SMALLHOLDER MANAGEMENT IN ZIMBABWE – G Kanonge | 193 DETERMINANTS OF CREDIT ACCESS AMONG COCOA FARMING HOUSEHOLDS IN NIGERIA - J Lawal | 183 PIGEONPEA/MAIZE INTERCROPPING SYSTEMS IN MPUMALANGA, SOUTH AFRICA: I-EFFECT OF PIGEONPEA GENOTYPES ON MAIZE PRODUCTIVITY – C Matthews |
| 15:40 – 16:00 | Tea/Coffe Break | | | |
| Rest of afternoon free | | | | |

THURSDAY, 1 OCTOBER 2009

Session 7 - Thursday 1 October 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|---------------|---|--|--|--|
| Chairperson | Dr Jeremy Klaasen | Prof John Annandale | Prof Sue Walker | Dr Luisa Santos |
| Subject | Agronomy | Agronomy | Agronomy/Horticulture | Plant protection |
| 08:30 - 08:55 | 119 KEYNOTE LECTURE IGNITING SOYBEAN OPPORTUNITIES IN AFRICA - MA Smit | 124 KEYNOTE LECTURE THE USE OF IRRIGATION FOR SUSTAINABLE CROP PRODUCTION IN AFRICA - D El-Din Elquosy | 159 UNCOVERING FARMERS' ETHNOBOTANICAL KNOWLEDGE: A METHODOLOGY FOR ASSESSING FARMERS' PERCEPTIONS OF CASSAVA VARIETIES - R Nchang Ntumngia | 129 DEVELOPING MANAGEMENT STRATEGIES FOR NAPIER STUNTING DISEASE IN WESTERN KENYA - M Mulaa |
| 08:55 - 09:15 | 120 WATER USE OF CHICKPEA (<i>Cicer arietinum</i> L.): RESPONSE TO GENOTYPE AND PLANTING DENSITY - JBO Ogola | 125 FLUX VARIANCE FOR ESTIMATING EVAPORATION ABOVE CROP CANOPIES: THEORY AND PRACTICE - ES Nile | 133 GAMETOGENESIS OF TWO GARLIC CLONES RELEVANT TO EGYPTIAN ORIGIN – SAM Osman | 130 EPIDEMIOLOGY OF TOMATO CURLY STUNT VIRUS IN MOZAMBIQUE - VN Nuaila |
| 09:15 - 09:35 | 121 THE EFFECT OF SEEDING RATE ON THE PRODUCTION OF FOUR VEGETABLE SOYBEAN CULTIVARS - AJ Arathoon | 126 STUDY OF SOME IN VITRO AND IN VIVO SELECTION CRITERIA FOR SALT STRESS TOLERANCE OF DURUM WHEAT (<i>Triticum turgidum</i> ssp. durum) - C Karmous | 161 EFFECT OF STAGE OF POD DEVELOPMENT AND TWO STORAGE PERIODS ON VIABILITY OF FLUTED PUMPKIN - NI Odiaka | 131 VIRUSES AND DIEBACK DISEASES THREATEN PASSIONFRUIT PRODUCTION SYSTEMS IN KENYA - MJ Otipa |
| 09:35 - 09:55 | 122 SCREENING AND EVALUATION OF SOYBEAN GENOTYPES IN MOZAMBIQUE - SK Boahen | 127 EFFECT OF ELEVATED CO2 ON GAS EXCHANGE, MINERAL CONTENT, YIELD AND QUALITY OF TOMATO, OKRA AND CHILLIES - A Mahmood | 162 EFFECT OF SUCKER MANAGEMENT ON BANANA YIELD - L Hidoto | 132 DEVELOPING A SOILLESS VEGETABLE PRODUCTION TECHNOLOGY AS A COMPONENT OF POVERTY REDUCTION STRATEGIES IN URBAN AND PERIURBAN AREAS OF THE GAMBIA - C Quansah |
| 09:55 - 10:15 | 123 ENHANCING DROUGHT TOLERANCE IN COWPEA (<i>Vigna uguiculata</i>) - C Fatokun | 128 PERFORMANCE OF RICE GENOTYPES IN DIFFERENT RICE (<i>Oryza sativa</i>) GROWING ENVIRONMENTS - RK Bam | 163 THE EFFECT OF PH AND MAGNESIUM ON COLOUR DEVELOPMENT AND ANTHOCYANIN ACCUMULATION OF TUBEROSE (<i>Polianthes tuberosa</i> Linn.) FLORETS - AN Muriithi | |
| 10:15 - 10:45 | Tea/Coffee Break | | | |

Session 8 - Thursday 1 October 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|--------------------|---|--|--|---|
| Chairperson | Dr Johann Strauss | Dr Moses Osiru | Dr Charles Quansah | Prof AW Mwan'ombe |
| Subject | Crop production | Agronomy | Agronomy/Soil Science | Plant protection |
| 10:45 - 11:05 | 134 PLANT GROWTH AND SYMBIOTIC FUNCTIONING OF FIELD GROWN PROMISCUOUS SOYBEAN GENOTYPES IN MOZAMBIQUE - C Gyogluu | 139 COMPARATIVE STUDIES OF THE SOWING METHODS OF UPLAND RICE AND RATOONED LOWLAND RICE VARIETIES IN LOWLAND RICE-VEGETABLE SEQUENCES IN INLAND VALLEY - SO Adigbo | 167 THE POTENTIAL OF AGRICULTURAL LIME ON IMPROVED SOIL HEALTH AND AGRICULTURAL PRODUCTION IN KENYA - JR Okalebo | 142 INCIDENCE OF CEREAL STEM BORER EGG PARASITIDS AND THEIR RELATIVE IMPORTANCE IN SMALL SCALE FARMER'S FIELDS IN MOZAMBIQUE - DR Cugala |
| 11:05 - 11:25 | 135 PERFORMANCE OF COWPEA VARIETIES UNDER DIFFERENT DEFOLIATION REGIMES FOR MULTIPLE USES - IC Maposse | 140 EFFECT OF SEED VIGOUR, SEED PRIMING AND PHOSPHORUS APPLICATION ON SEEDLING ESTABLISHMENT AND VIGOUR OF UPLAND RICE (<i>Oryza sativa</i> L.) - RK Bam | 169 ON FARM WEED MANAGEMENT IN UPLAND RICE IN THREE VILLAGES OF KATSINA STATE NIGERIA - JO Adeosun | 143 FROM A SUCCESS STORY TO A TALE OF DAILY STRUGGLE: THE CASE OF LEAFMINER CONTROL AND COMPLIANCE WITH FOOD SAFETY STANDARDS IN KENYA'S SNOWPEA INDUSTRY - ZM Gitonga |
| 11:25 - 11:45 | 136 ON-FARM ADAPTABILITY OF COWPEA (<i>Vigna unguiculata</i> (L.) WALP.) UNDER MAIZE INTERCROPPING IN THE SOUTHERN LOWLAND OF MOZAMBIQUE - AD Ndeve | 141 OPTIMIZATION OF NITROGEN FERTILIZER LEVEL FOR MAXIMUM COLONIZATION OF MYCORRHIZAE ON ROOT OF CORIANDER PLANTS - FS Ali | 175 ENTOMOPHAUNA ASSOCIATED WITH <i>Jatropha curcas</i> L. IN MOZAMBIQUE - P Gagnaux | 144 ARTHROPOD SPECIES DIVERSITY IN CASSAVA AND NON CASSAVA ECOSYSTEM IN WESTERN KENYA - MA Mulaa |
| 11:45 - 12:05 | 137 CHICKPEA - A PROMISING NEW FOOD LEGUME CROP FOR DROUGHT PRONE COOL AREAS OF KENYA - WM Thagana | 158 POST-HARVEST CHANGES STUDIES IN SUGAR CANE CULTIVARS UNDER UPPER EGYPT CONDITION - Z Ahmed | | 145 FRUIT FLIES PEST STATUS, WITH EMPHASIS ON THE OCCURRENCE OF THE INVASIVE FRUIT FLY, <i>Bactrocera invadens</i> (DIPTERA: TEPHRITIDAE) IN MOZAMBIQUE - DR Cugala |
| 12:05 - 12:25 | 138 SCREENING COWPEA FOR IMPROVED DROUGHT TOLERANCE IN MOZAMBIQUE - RM Chiulele | 168 CHEMICAL ANALYSIS OF OIL AS PART OF MARKETING ESSENTIAL OIL CROPS E.G. PELARGONIUM - KM Swanepoel | 177 PARTICIPATORY SELECTION OF AFRICAN EGGPLANT AND ROSELLE VARIETIES FOR FRUIT, LEAF, AND CALYX PRODUCTION IN MALI - M Diouf | 146 ENSURING FOOD SECURITY THROUGH OPTIMIZING THE MARKETING OF NON-TIMBER FOREST PRODUCTS (NTFPS) IN OYO STATE, NIGERIA – JO Oseni |
| 12:25 - 14:00 | Lunch break | | | |

Session 9 - Thursday 1 October 2009

| Venue | Lecture Hall A | Lecture Hall B | Constantia | Stellenbosch |
|--------------------|--|--|---|--|
| Chairperson | Dr PJ Pieterse | Dr Gertrude Night | Prof Robert Okalebo | Prof Dominic Fontem |
| Subject | Agronomy | Plant protection | Soil science/Rural and socio-economics | Plant protection |
| 14:00 - 14:20 | 149 RESPONSE OF WEEDS AND MAIZE TO FOUR YEARS OF PLANTING BASIN TILLAGE IN SEMI- ARID ZIMBABWE - N Mashingaidze | 170 ALTERNARIA SPECIES CAUSING BLACK SPOT DISEASE OF BRASSICAS IN KENYA - EK Kiprof | 179 EFFECT OF NITROGEN FERTILIZATION ON STAY-GREEN AND SENESCENT SORGHUM HYBRIDS - S Addy | 150 TESTING DIFFERENT PEST MANAGEMENT STRATEGIES FOR THE CONTROL OF <i>Alocypha bimaculata</i> JACOBY, A NEW INVASIVE SESAME PEST IN NORTHERN MOZAMBIQUE - L Santos |
| 14:20 - 14:40 | 153 MOBILIZING STRIGA CONTROL TECHNOLOGIES IN KENYA - P.L. Woomeer | 172 THE INTEGRATED APPROACH FOR THE MANAGEMENT OF BANANA XANTHOMONAS WILT IN EAST AND CENTRAL AFRICA - W Tinzaara | 171 OPTIMAL CONSUMPTION BUNDLE FOR ENHANCING HOUSEHOLD FOOD SECURITY IN VIHIGA DISTRICT, KENYA: AN APPLICATION OF LINEAR PROGRAMMING APPROACH - PM Nyangwezu | 151 DEVELOPING A SOILLESS VEGETABLE PRODUCTION TECHNOLOGY AS A COMPONENT OF POVERTY REDUCTION STRATEGIES IN URBAN AND PERIURBAN AREAS OF THE GAMBIA – A Seck |
| 14:40 - 15:00 | 157 HORTICULTURAL AND CYTOGENETICAL CHARACTERISTICS OF SOME EGYPTIAN AND FOREIGN GARLIC CULTIVARS – SAM Osman | 178 STABILITY OF PERFORMANCE OF LOCAL AND ELITE COWPEA LINES UNDER TWO SPRAYING REGIMES IN GHANA - H Adu-Dapaah | 173 ASSESSMENT AND SIMULATION OF POVERTY AND INCOME INEQUALITY IN SUDAN - A Eissa | 152 SCREENING AND BREEDING FOR RESISTANCE TO MAIZE STEM BORERS <i>Sesamia calamistis</i> AND <i>Eldana saccharina</i> IN WEST AND CENTRAL AFRICA - SO Ajala |
| 15:00 - 15:30 | Tea/Coffee Break | | | |
| 15:30 - 16:30 | Closing ceremony | | | |
| 19:30 - late | Gala dinner | | | |

| Poster Programme | | | |
|---|--|---|--|
| Session 1 Monday 28 September 2009 | Session 2 Tuesday 29 September 2009 | Session 3 Wednesday 30 September | Session 4 Thursday 1 October |
| Poster Title and Authors | Poster Title and Authors | Poster Title and Authors | Poster Title and Authors |
| P1 | P64 THE DETERMINANTS OF FUELWOOD DEMAND IN OLIIO SUB-COUNTY OF EASTERN UGANDA - EGERU, A; MAJALIWA J.G.M; 2KATEREGGA, E; ISUBUKALU, P; MUKWAYA, P; ADIPALA E. | P20 PROGRESS IN CREATION OF A CROP IMPROVEMENT PROGRAM AT THE HISTORICALLY BLACK UNIVERSITY OF VENDA (SOUTH AFRICA) - E.T. GWATA AND J.B.O OGOLA | P40 THRIPS (<i>Megalurothrips sjostedt</i>) TOLERANT COWPEA (<i>Vigna unguiculata</i> (L.) WALP) FOR IMPROVED NUTRITIONAL STATURES AND LIVELIHOOD IN WEST AFRICA - K. ADOFO, S. VAN HEUSDEN, B. VOSMAN, AND H. ADU-DAPAAH |
| P2 SEED VIABILITY AND PRODUCTIVITY OF LOCAL ACCESSONS AND EXOTIC VARIETIES OF JUTE MALLOW (<i>Corchorus olitorius</i> L) IN LIMPOPO (SOUTH AFRICA) - M.P. MABAPA, J.B.O. OGOLA, G.R.A. MCHAU AND E.T. GWATA | P65 WEED POPULATION DENSITY AND DIVERSITY AS AFFECTED BY RESIDUE MANAGEMENT PRACTICES IN A WHEAT-SOYBEAN DOUBLE-CROP PRODUCTION SYSTEM - NYAMBILILA AMURI, KRISTOFOR R. BRYE AND L. DICK OLIVER | P21 AN APPRAISAL OF THE FACTORS IMPACTING ON CROP PRODUCTIVITY OF SMALL-SCALE FARMS IN THE SEMI-ARID ENVIRONMENTS IN ZIMBABWE AND THEIR IMPLICATION ON CROP IMPROVEMENT GOALS AND POLICY INTERVENTIONS - I. MAKANDA, P. TONGOONA AND J. DERERA | P41 THE EFFECTS OF STRATEGIC NITROGEN FERTILISER APPLICATION DURING THE COOL SEASON ON SOIL N DYNAMICS IN A PERENNIAL RYEGRASS-WHITE CLOVER PASTURE AT THE OUTENIQUA EXPERIMENTAL FARM, SOUTHERN CAPE - J. LABUSCHAGNE AND H. GERBER |
| P3 EFFECTS OF SMOKE, LIGHT, COLD STORAGE, CALCIUM NITRATE AND POTASSIUM SULPHATE ON SEED GERMINATION OF <i>Cleome gynandra</i> AND TWO <i>Amaranthus</i> SPECIES - G.E. ZHARARE AND F.B. LEWU | P66 AN ASSESSMENT OF QUALITY AND HEALTH OF FIELD BEAN SEEDS HOME- SAVED BY SMALLHOLDER FARMERS - D. ICISHAHAYO, J. SIBIYA, S. DIMBI, I.C. MADAKADZE, W. MANYANGARIRWA AND B. CHIPINDU | P22 CROP ROTATION AND FERTILIZER EFFECT ON PRODUCTIVITY AND NUTRITIONAL DEMANDS OF SMALL-SCALE FARMERS IN DRYLAND AREAS OF SOUTH AFRICA - T.C. BALOYI, M.D. THOBAKGALE AND F.R. KUTU | P42 THE EFFECTS OF STRATEGIC NITROGEN FERTILISER APPLICATION DURING THE COOL SEASON ON THE CLOVER CONTENT OF A PERENNIAL RYEGRASS-WHITE CLOVER PASTURE AT THE OUTENIQUA EXPERIMENTAL FARM, SOUTHERN CAPE - J. LABUSCHAGNE AND H. GERBER |
| P4 TECHNOLOGICAL ASPECTS OF FOOD IRRADIATION - S. M. HANNA | P67 BREEDING POTENTIAL OF SELECTED SWEETPOTATO CULTIVARS IN UGANDA FOR IMPROVEMENT OF YIELD, NUTRITIONAL QUALITY AND SWEET POTATO VIRUS DISEASE RESISTANCE - E. GASURA, A.B MASHINGAIDZE, AND S.B. MUKASA | P23 THE POTENTIAL FOR LEGUME AND GRASS MULCHES TO IMPROVE PRODUCTIVITY IN THE SMALLHOLDER CROPPING SYSTEMS OF LIMPOPO PROVINCE, RSA - S.R. SASA AND A.M. WHITBREAD | P43 FACILITATING THE IMPLEMENTATION OF CONSERVATION AGRICULTURE PRINCIPLES IN THE MORETELE WARD OF THE MPUMALANGA PROVINCE, SOUTH AFRICA - M.C. MATLOU, H.J. SMITH AND K.W. MASHABANE |
| P5 | P68 OCCURRENCE AND IMPLICATIONS OF SWEETPOTATO RECOVERY FROM SWEET POTATO VIRUS DISEASE - E. GASURA, AND S.B. MUKASA | P24 | P44 |

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| P6 PROMOTION OF WILD VEGETABLES IN NORTHERN KWAZULU-NATAL, SOUTH AFRICA: AN ALTERNATIVE TO HIDDEN HUNGER IN RURAL COMMUNITIES - F.B. LEWU AND S. MAVENGHAMA | P69 UNDERSTANDING KERNEL SET IN SEED PRODUCTION OF MAIZE (<i>ZEA MAYS</i> L.) HYBRIDS - RICHARD CHANDA *, CATHERINE MUNGOMA , DAVIES LUNGU AND JOHN MACROBERT | P25 | P45 SALT STRESS EFFECTS ON GERMINATION, PLANT GROWTH AND THE ACCUMULATION OF METABOLITES IN FIVE LEGUMINOUS PLANTS - V. D. TAFFOUO, L. MEGUEKAM, M. KENNÈ, E. YAYI, A. MAGNITSOP AND A. AKOA |
| P7 A PRILIMINARY SURVEY OF INSECT PESTS OCCURRING IN PIGEONPEA (<i>Cajanus cajan</i> L. MILLSP.) GROWN IN LIMPOPO (SOUTH AFRICA) - E.C. KUNJEKU, E.T. GWATA AND T.G KUTAMA | P70 THE ROLE OF IN - KIND CREDIT ON MILK PRODUCTIVITY AMONG CREDIT PARTICIPATING AND NON PARTICIPATING DAIRY FARMERS IN MALAWI - A CASE STUDY OF CENTRAL AND NORTHERN MILKSHED AREAS - S CHINDIME | P26 GENETIC VARIABILITY OF NITROGEN UPTAKE AND REMOBILISATION IN DURUM WHEAT (<i>Triticum turgidum</i> ssp. durum) - S. AYEDI, N. TAMANI, Z. HAMMEMI, C. KARMOUS AND Y. TRIFA | P46 GROWTH, IONIC DISTRIBUTION AND YIELD RESPONSE OF SOME COWPEA (<i>Vigna unguiculata</i> L. WALP.) CULTIVARS GROWN UNDER SALT STRESS - V. D. TAFFOUO, L. MEGUEKAM, M. KENNÈ, E. YAYI, A. MAGNITSOP AND A. AKOA |
| P8 SUSCEPTIBILITY OF ORNAMENTAL PLANTS TO PLANT PARASITIC NEMATODES IN IBADAN, NIGERIA - A.O. CLAUDIUS-COLE AND B. FAWOLE | P71 MEDICINAL PLANTS OF BOTSWANA AS EMERGING NEW CROP OPPORTUNITIES - DML MOTLHANKA | P27 THE EFFECT OF NITROGEN FERTILIZATION ON HEMP (<i>Cannabis sativa</i> L) PRODUCTION IN THE EAST AND WESTERN CAPE PROVINCES OF SOUTH AFRICA - M.L MOKOENA, S.M FUNNAH AND L.G OWOEYE | P47 EFFECT OF SALT STRESS ON GROWTH, YIELD AND IONIC DISTRIBUTION OF THREE BAMBARA GROUNDNUTS (<i>Vigna subterranea</i> (L.) VERDC.) LANDRACES - V. D. TAFFOUO, J. K. KOUAMOU, L. M. T. NGALANGUE, B.A.N. NDJEUDJI AND A. AKOA |
| P9 | P72 EFFECT OF MYCORRHIZAE AND <i>RHIZOBIUM</i> SPP. ON THE DEVELOPMENT AND YIELD OF COMMON BEANS AND COWPEAS - SIBOZA, P. P. AND EARNSHAW ^A , D.M. | P28 EFFECT OF MAIZE PLANT DENSITY ON YIELD PERFORMANCE OF A MAIZE/ TEPARY BEAN INTERCROP - V. M. KEKANA AND I.K. MARIGA | P48 PARTICIPATORY VARIETY SELECTION OF NEW PROMISING ANTHRACNOSE RESISTANT BEAN LINES IN UGANDA: FIELD CHALLENGES AND ACHIEVEMENTS - S.T. NKALUBO, M.A. UGENI, I. MUGAGGA AND R. SKABEMBE |
| P10 THE EFFECT OF SYNERGISTIC INTERACTION OF ROOT-KNOT NEMATODES AND CASSAVA BROWN STREAK VIRUS (CBSV) IN THE DEVELOPMENT OF VIRAL DISEASE (CBSD) AND CASSAVA PRODUCTION - M. MUTHAMBE, A.M. MONDJANA AND T.F. CHICONELA | P73 SOURCES AND QUALITY OF WATER USED BY SMALLHOLDER FARMERS IN ZIMBABWE'S ZAMBEZI VALLEY FOR THE PREPARATION OF COTTON PESTICIDE SPRAY MIXTURES - P. JOWAH, H. TIBUGARI & P. POSHAYI | P29 IDENTIFICATION AND MAPPING OF STRIGA IN MOZAMBIQUE - E. MAGAIA, R. MASSINGA, M. MATANGUE AND E. MULIMA | P49 EFFECTS OF ESSENTIAL PLANT OILS ON VIABILITY OF STORED MAIZE AND COWPEA - C.O. OKUNOLA, M.O. OGENKOYA AND A.A. OKUNOLA |
| P11 PARTICIPATORY APPROACHES TOWARDS IDENTIFYING AND CONTROLLING PLANT-PARASITIC NEMATODES (PPN) IN DEVELOPING AGRICULTURAL SYSTEMS IN SOUTH AFRICA - N. NTIDI, H. FOURIE AND A.H. MC DONALD | P74 PHYSIOLOGICAL OBJECTIVES IN BREEDING FOR HIGH GRAIN YIELD UNDER MOISTURE STRESS CONDITIONS IN RAIN FED AREAS- LIBYA - K.M. ZARROUGH, M.M. EMSALEM AND F.A. JABIL | P30 SOIL SEED BANK COMPOSITIONAL CHANGE WITH A SHIFT FROM CONVENTIONAL TILLAGE TO CONSERVATION TILLAGE - Z. MAVUNGANIDZE, I.C. MADAKADZE AND N. MASHINGAIDZE | P50 |
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| P12 THE EFFECT OF ROTATIONAL CROPS ON DIFFERENT NEMATODE SPECIES IN AN ORGANIC COTTON FARMING SYSTEM - E. R. VAN BIJON AND J. VAN SCALKWYK | P75 | P31 ESTIMATION OF CRITICAL PERIOD OF WEED-SESAME COMPETITION AND ASSOCIATED SESAME (<i>Sesamum indicum</i> L.) YIELD LOSS AT HUMERA, NORTHERN ETHIOPIA – M. AMARE, J.J. SHARMA AND G. WOLDEWAHID | P51 MALTING AND MILLING QUALITY OF SORGHUM CULTIVARS - C. CHIREMBA |
| P13 PROMOTING FINGER MILLET BY PARTNERS ALONG THE VALUE CHAIN IN WESTERN KENYA - R. A. NUNGO, C.O.A. ODUORI, B.SALASYIA, R.OPOLE, M.MUDEHERI, A.OMUTSANI, A.OKOLLA, R. SHIKUKU, A. KODIA AND C. OLOO | P76 | P32 POTENTIAL OF TRIPLE AND DOUBLE CROPPING WITH AND WITHOUT IRRIGATION IN THE SUDAN AND NORTHERN GUINEA SAVANNA ZONES OF WEST AFRICA - H.A. AJEIGBE, A.Y. KAMARA AND D. CHIKOYE | P52 MONITORING THE ESTABLISHMENT AND SPREAD OF THE PREDATOR <i>Teretrius nigrescens</i> LEWIS, A BIOLOGICAL CONTROL AGENT OF THE LARGER GRAIN BORER, <i>Prostephanus truncatus</i> HORN IN MOZAMBIQUE - C.E.P. MAHUMANE, B.L. MUATINTE AND D.R. CUGALA |
| P14 THE EFFECT OF PHOSPHORUS FERTILIZER ON YIELD OF THREE GROUNDNUT CULTIVARS IN LIMPOPO PROVINCE, RSA - J.J.O. ODHIAMBO AND A.M. WHITBREAD | P77 CLIMATE CHANGE EFFECTS ON CROP PRODUCTION AND LIVELIHOODS IN THE TANGANYIKA AND KIVU LAKES REGION - KARUME K, MAJALIWA M, AZANGA E., USUNGU J., AND BIREMBANO B. | P33 EVALUATION OF COCONUT (<i>Cocos nucifera</i> L.) HYBRID VARIETIES UNDER DIFFERENT MANAGEMENT SYSTEMS IN TANZANIA - A. NGEREZA, G. NYALUSI, G. S. CHIPUNGAHELO, J. AMBROSE, P. KAWAMALA, S. MGEMA, S.MOSHI AND T. KWILEKA | P53 DIFFERENTIAL GENE EXPRESSION IN NEMATODE-SUSCEPTIBLE AND -TOLERANT EAST AFRICAN HIGHLAND BANANAS (<i>Musa</i> spp.) FOLLOWING INOCULATION WITH NON-PATHOGENIC FUSARIUM OXYSPORUM ENDOPHYTES -P. PAPARU, T. DUBOIS, D. COYNE AND A. VILJOEN, |
| P15 | P78 GENETIC TRANSFORMATION OF SWEETPOTATO WITH <i>NPK1</i> GENE FOR DROUGHT STRESS TOLERANCE - SEFASI A, KWAPATA M AND MACHUKA J | P34 PRELIMINARY INDICATORS OF ADAPTATION OF PIGEONPEA (<i>Cajanus cajan</i> L. MILLSP.) TO LIMPOPO (SOUTH AFRICA) - K.E. MOGASHOA AND E.T. GWATA | P54 |
| P16 INFLUENCE OF THE RATIO OF AMMONIUM TO NITRATE ON UPTAKE OF PHOSPHORUS FROM ROCK PHOSPHATE IN COWPEA (<i>Vigna unguiculata</i> (L.) WALP.) INOCULATED WITH MYCORRHIZA FUNGI (<i>Glomus</i> spp.) - B.NGWENE,, E. NEUMANN, W. CLAUSSEN AND E. GEORGE | P79 | P35 | P55 BOTTLENECKS AND CHALLENGES IN THE CULTIVAR RELEASE PROCESS IN THE PUBLIC SECTOR IN SUB-SAHARAN AFRICA - E.T. GWATA AND J. DERERA |
| P17 MAIZE YIELD RESPONSE TO GREEN MANURE AND NITROGEN FERTILIZER APPLICATION - J.J.O. ODHIAMBO | P80 GENETIC ANALYSIS OF 2, 4-DICHLOROPHENOXYBUTYRIC ACID ON TILLING ALLELES OF <i>ARABIDOPSIS COMATOSE</i> GENE - L. TEMBO, M. HOLDSWORTH AND H. SCHMUTHS | P36 STEM GROWTH AND FIBRE FORMATION IN KENAF (<i>Hibiscus cannabinus</i>) - P.J. ROBBERTSE AND D. MARAIS | P56 |

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