
	1ST ANNUAL CONFERENCE ON SCIENCE FOR DEVELOPMENT: SUPPORTING MANUFACTURING, AFFORDABLE HOUSING, UNIVERSAL HEALTHCARE AND FOOD SECURITY 24TH -25TH OCTOBER 2018	
	COLLEGE OF BIOLOGICAL AND PHYSICAL SCIENCES (CBPS), P.O. BOX 30197 - 00100, NAIROBI, KENYA	
	DAY 1: WEDNESDAY, 24TH OCTOBER 2018	
TIME	ACTIVITY AND VENUE	
8.00-9.00AM	ARRIVAL AND REGISTRATION OF PARTICIPANTS. MILLENIUM HALL I	
9.00-10.30AM	OFFICIAL OPENING CEREMONY: MILLENIUM HALL I	
	OPENING CEREMONY SHORT SPEECHES	MC: PROF. PATRICK WEKE
	1. CHAIR OF THE ORGANIZING COMMITTEE	
	2: STATUS OF RESEARCH IN SCIENCE: DEAN SPS, DIRECTOR SBS, DIRECTOR SCI, DIRECTOR ICCA	RAPPT: Ms.Rose Minoo, SPS
	3. THE PRINCIPAL, COLLEGE OF BIOLOGICAL AND PHYSICAL SCIENCES (CBPS), UNIVERSITY OF NAIROBI	
	4. THE VICE CHANCELLOR, UNIVERSITY OF NAIROBI	
	GROUP PHOTO	
10.30 -11.00 AM	TEA BREAK	
		CHAIR
11.00-12.00PM	PLENARY SESSION: MILLENIUM HALL I: KEYNOTE SPEAKER: PROF. CATHERINE NGILA, DEPUTY DIRECTOR , MORENDAT INSTITUTE OF OIL & GAS, KENYA PIPELINE COMPANY	CHAIR: DR. B. KULOHOMA,
12.00 - 1.00PM	PARALLEL SESSIONS WITH PARTICIPANT SPEAKERS (15 MINUTES PER SPEAKER)	
	PARALLEL SESSION 1: FOOD SECURITY: VENUE: ROOM 1:MILLENIUM HALL I	
12.00-12.15PM	CYRUS GITHUNGURI - ONFARM ASSESSMENT OF THE MAIZE YIELD GAP OBTAINED BY CURRENT FARMING PRACTICES AND IMPROVED CROP NUTRITION IN SEMI-ARID EASTERN KENYA DURING THE SHORT RAINS SEASON	CHAIR:DR. J. NYONGESA

Shaded are postgraduate student speakers. Many postgraduate students presented excellent posters

12.15.12.30 PM	S.D. KIOGORA - WASTE TO WEALTH: BIOLOGICAL INNOVATIONS IN BIO-RESOURCE RECOVERY FOR FOOD SECURITY AND ENVIRONMENTAL MANAGEMENT IN DEVELOPING COUNTRIES	
12.30-12.45PM	JESSE OWINO - IMPROVING MANURE MANAGEMENT PRACTICES TOWARDS NUTRIENT RETENTION AND GHG EMISSIONS REDUCTION FOR SMALLHOLDER DAIRY FARMERS IN NANDI COUNTY, KENYA.	
12.45-1.00PM	QUESTIONS AND ANSWERS SESSION	
	PARALLEL SESSION 2: BASIC SCIENCE: VENUE: ROOM 2: SPS BOARD ROOM	
12.00-12.15PM	OKENGO, G. - PROBING THE "DARK" UNIVERSE	CHAIR: DR. F. OPIJAH
12.15 - 12.30PM	COLLINS OCHIENG ONYAGA - ASSESSING THE POTENTIAL OF USING SATELLITE DATA ON RADIATION IN THE ANALYSIS OF EARTH'S CLIMATE SYSTEM TO COMPLEMENT THE SCARCE RADIATION DATA MEASURED FROM THE GROUND STATIONS	
12.30-12.45PM	JOSEPHINE KAGUNDA - MODELING THE EFFECTS OF INSECTICIDE RESISTANCE ON MALARIA CONTROL IN ENDEMIC REGIONS IN KENYA	
12.45-1.00PM	QUESTIONS AND ANSWERS SESSION	
	PARALLEL SESSION 3: MANUFACTURING: VENUE: ROOM 3: ICCA G1	CHAIR: DR. R. SARGUTA
12.00-12.15PM	NANCY M. MWENZE - APPLICATION OF BUTTERFLY WING IRIDESCENCE, REFLECTION SPECTROSCOPY AND CHEMOMETRIC TOOLS IN ADULTERATION SENSING IN GASOLINE AND ALCOHOLIC DRINKS	
12.15 - 12.30PM	CHRISTOPHER OLUDHE - PROMOTING THE USE OF RENEWABLE ENERGY RESOURCES FOR SUSTAINABLE DEVELOPMENT IN KENYA	
12.30-12.45PM	ERIC OTIENO - EXPLORING THE STATUS OF INFORMATION SECURITY POLICY COMPLIANCE STUDIES: BUILDING CREDIBILITY AND TRUST IN SUPPORTING MANUFACTURING, AFFORDABLE HOUSING, UNIVERSAL HEALTHCARE AND FOOD SECURITY	
12.45-1.00PM	QUESTIONS AND ANSWERS SESSION	
	PARALLEL SESSION 4: HEALTH: VENUE: ROOM 4: ICCA 101	
12.00-12.15PM	KARIUKI D.K, - NATURALLY SYNERGISED PYRETHRUM FOR THE CONTROL OF AEDIS AEGYPTI MOSQUITO FOR INDOOR INTEGRATED PEST MANAGEMENT STRATEGY	CHAIR: DR G. OKENG'O
12.15.12.30 PM	NYAKUNDI G.N. - A COMPARISON OF PARAMETRIC METHODS FOR MODELING MOSQUITO SURVIVAL USING TEMPERATURE AND AGE-DEPENDENT SURVIVAL DATA (MODELS FOR DISEASE PREDICTION)	

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12.30-12.45PM	NELSON ONYANGO - CAPI FOR DATA COLLECTION	
12.45-1.00PM	QUESTIONS AND ANSWERS SESSION	
1.00-2.00PM	LUNCH BREAK	
2.00-3.00PM	PLENARY SESSION: MILLENIUM HALL I: KEYNOTE SPEAKER: DR. NICHOLAS OZOR, EXECUTIVE DIRECTOR, AFRICAN TECHNOLOGY POLICY STUDIES NETWORK (ATPS), NAIROBI, KENYA	CHAIR: DR. N. ONYANGO
3.00-4.00PM	2 MINS POSTER INTRODUCTIONS FOR EACH POSTER	
4.00-5.00PM	TEA BREAK AND POSTER SESSION	
	DAY 2: THURSDAY, 25TH OCTOBER 2018	
TIME	ACTIVITY AND VENUE	CHAIR & RAPPOTEUR
8.45-9.30AM	PLENARY SESSION: KEYNOTE SPEAKER: DR. WILLIS ODEK, CHIEF OF PARTY/SENIOR TECHNICAL ADVISOR, UNC/MEASURE EVALUATION TANZANIA	CHAIR: Prof. L. Njenga, Director, Graduate School
9.30 - 10.15 AM	PLENARY SESSION: MILLENIUM HALL I: KEYNOTE SPEAKER: PROF. RAPHAEL MUNAVU, PROFESSOR OF CHEMISTRY, UNIVERSITY OF NAIROBI	
10.15-10.30AM	TEA BREAK	
10.30 - 1.00PM	PARALLEL SESSIONS WITH PARTICIPANT SPEAKERS (15 MINUTES PER SPEAKER)	
	PARALLEL SESSION 1: MANUFACTURING: VENUE: ROOM 1: MILLENIUM HALL I	
10.30-1045AM	JACOB OKETCH OKUNGU –ASYMPTOTIC NORMALITY BEHAVIOUR OF A NON-PARAMETRIC ESTIMATOR FOR A FINITE POPULATION TOTAL USING EDGEWORTH EXPANSION (SCIENCE AND TECHNOLOGY FOR SUSTAINABLE INDUSTRIAL TRANSFORMATION IN MANUFACTURING, VALUE ADDITION AND JOB CREATION)	CHAIR: DR. C. OLUDHE
10.45-11.00AM	MOSES NDUNDA - EXTENDING USABILITY OF OLD FIBRE OPTIC CABLES IN THIRD-WORLD ECONOMIC ZONES	
11.00-11.15AM	MMBAGA J - CELLULOSE-ZEOLITE NANOCOMPOSITES: SYNTHESIS AND CHARACTERIZATION USING POWDER X-RD, SEM, EDX & FTIR METHODS FOR LEAD & CADMIUM REMOVAL FROM WATER	
11.15-11.30AM	WILSON NGURU - SUPPLIER SELECTION PROCESS BASED ON FUZZY LOGIC	
11.30-11.45AM	LYDIA KITUNGULU - SCIENCE- INVESTMENT PARTNERSHIPS FOR TRAINING AND TECHNOLOGY TRANSFER	
11.45-12.00PM	ABEGA NGONO JEAN MARIE - FINANCING AND EMPLOYMENT OFFER OF THE ENTERPRISES IN CAMEROON	

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12.00-12.15PM	NGUGI C.N. - MORPHOMETRICS BASED IDENTIFICATION OF INDIGENOUS ENTOMOPATHOGENIC NEMATODE ISOLATE TK-1	
12.15-1.00PM	QUESTIONS AND ANSWERS SESSION	
	PARALLEL SESSION 2: FOOD SECURITY: VENUE: ROOM 1: Millennium Hall I	CHAIR: DR C. Oludhe
10.30-10.45AM	NDEDE ELIZAPHAN OTIENO -BIOCHAR EFFECTS ON PLANT AVAILABLE WATER OF SANDY SOILS AS A STRATEGY FOR CLIMATE-SMART AGRICULTURE	
10.45-11.00AM	PETER MWANGI MUCHIRI -AQUACROP SOFTWARE, THE KEY TO STUDYING THE EFFECTS OF CLIMATE CHANGE ON CROP YIELDS	
11.00-11.15AM	TIMOTHY MAYABI WAMALWA - AN ARTIFICIAL NEURAL NETWORK MODEL FOR PREDICTING MAIZE PRICES IN KENYA	
11.15-11.30AM	LILIAN SONGOK - DETERMINATION OF PHYSICOCHEMICAL CHARACTERISTICS OF GLUTEN FREE BREAD PREPARED FROM GREEN BANANA PUMPKIN SEED AND CASSAVA COMPOSITE FLOURS.	
11.30-11.45AM	LUKORITO CROMWEL -INCREASING RESILIENCE OF AFRICAN SMALLHOLDER AGRICULTURE TO CLIMATE VARIABILITY AND CHANGE IMPACTS THROUGH VALUE ADDED CLIMATE INFORMATION SERVICES	
11.45-12.00PM	MAUREEN KERUBO - AQUACULTURE FOR FOOD SECURITY: ARE THERE VIABLE ALTERNATIVES FOR TILAPIA (OREOCHROMIS NILOTICUS) FINGERLINGS DIET?	
12.00-12.15PM	EMILY BOSIRE - MODELLING IMPACTS OF CLIMATE CHANGE ON SORGHUM PRODUCTION IN THE SEMI-ARID ENVIRONMENT OF MACHAKOS COUNTY	
12.15-12.30PM	AYIENDA KEMUNTO CAROLINE - DROUGHT EARLY WARNING INFORMATION SYSTEM IN A CHANGING CLIMATE: AGRICULTURE AND LIVESTOCK PRODUCTION IN KILIFI COUNTY, KENYA (SCIENTIFIC RESEARCH, TECHNOLOGY AND INNOVATIONS FOR SUSTAINABLE FOOD PRODUCTION)	
12.30 - 12.45PM	CECILIA NGUGI - MORPHOMETRICS BASED IDENTIFICATION OF INDIGENOUS ENTOMOPATHOGENIC NEMATODE ISOLATE TK-1	
12.45-1.00PM	QUESTIONS AND ANSWERS SESSION	
	PARALLEL SESSION 3: HEALTH: VENUE: ROOM 3: ICCA G1	
10.30-10.45AM	LEONIDA KERUBO OMOA - CYTOTOXICITY OF PLUMBAGIN, RAPANONE AND 12 OTHER NATURALLY OCCURRING QUINONES FROM KENYAN FLORA TOWARDS HUMAN CARCINOMA CELLS	CHAIR: DR E. M. MWANGI
10.45-11.00AM	MOSES MUTAKI - APPLICATION OF RANDOM SURVIVAL FORESTS AND ACCELERATED FAILURE TIME SHARED FRAILTY MODELS IN UNDERSTANDING UNDER-FIVE CHILD MORTALITY IN KENYA	

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11.00-11.15AM	IMMANUELLA KIBII - UTILITY OF EDXRF IN ELEMENTAL STUDY OF HERBAL EXTRACT SUSPECTED TO INDUCE PRODUCTION OF OXYTOCIN	
11.15-11.30AM	JOSHUA M SILA: DETECTING PENICILLIN RESIDUES FROM ENVIRONMENTAL SAMPLES USING A SIMPLE PENICILLIN SENSOR	
11.30-11.45AM	ABIY YENESEW - PHYTOCHEMICAL INVESTIGATION OF KENYAN PLANTS TOWARDS MANAGEMENT OF MALARIA: A CASE STUDY OF <i>PENTAS</i> SPECIES (RUBIACEAE)	
11.45-12.00PM	EDEN DEMISSIE DEBELA - CHANGING THE TREND OF SAFE DRINKING WATER THROUGH PUBLIC PRIVATE PARTNERSHIP IN ETHIOPIA.	
12.00-12.15PM	PROF. JASMIT S. SHAH - THE ROLE OF BIOSTATISTICS IN ENHANCING MEDICAL RESEARCH IN THE REGION.	
12.15-12.30PM	ISABELLA M. ONDIBA - LARVAL SPECIES DIVERSITY, SEASONAL OCCURRENCE AND BREEDING HABITAT PREFERENCE OF MOSQUITOES TRANSMITTING RIFT VALLEY FEVER AND MALARIA IN BARINGO COUNTY, KENYA	
12.30.12.45 PM	SOLOMON DERESE - MITISHAMBA DATABASE: A WEB-BASED IN SILICO DATABASE OF NATURAL PRODUCTS FROM KENYAN PLANT FOR THE DESIGN OF ANTIPLASMODIAL COMPOUNDS	
12.45-1.00PM	QUESTIONS AND ANSWERS SESSION	
	PARALLEL SESSION 4: BASIC SCIENCE: VENUE: ROOM 4: SPS BOARD ROOM	
10.30-10.45AM	JOSEPH MUTEMI - ADVANCING UNDERSTANDING, MODELLING AND PROVISION OF CLIMATE INFORMATION FOR SUSTAINABLE DEVELOPMENT IN KENYA AND EASTERN AFRICA.	CHAIR: Dr Katende
10.45-11.00AM	MURIUNGI ROBERT GITUNGA - USE OF SLOPE OPTIMAL WEIGHTS FOR THE FOUR COMPONENTS SIMPLEX-CENTROID DESIGN IN FORMULATION OF OPTIMUM DAIRY MEAL CONCENTRATES.	
11.00-11.15AM	ZACHARY NKUNU - ELECTROCATALYTIC REDUCTION AND CHARACTERIZATION OF TETRACHLORVINPHOS IN ACETONITRILE-WATER (1:1) MEDIA IN PRESENCE OF CYANOCOBALAMIN	
11.15-11.30AM	MWANGI AGNES WANJIRU - A COMPARISON OF THE SOCIO-ECONOMIC STATUS OF FEMALE-HEADED AND MALE-HEADED HOUSEHOLDS IN KENYA: USE OF ORDINAL LOGISTIC REGRESSION	
11.30-11.45AM	PHILIP NGARE - ANALYSIS OF THE COEXISTENCE OF CONVENTIONAL AND UNCONVENTIONAL CREDIT MARKETS IN THE AGRIBUSINESS SECTOR IN KENYA	
11.45-12.00PM	BETH NDUNDA - THE PHYTOCHEMISTRY AND BIOLOGICAL ACTIVITY INVESTIGATIONS OF THREE KENYAN <i>CROTON</i> SPECIES	
12.00-12.15PM	SAMSON WANGILA WANYOYI - COMPUTATIONAL GENERALIZATION OF MIXED MODELS ON LARGE-SCALE DATA	

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	WITH APPLICATIONS TO GENETIC STUDIES	
12.15-12.30PM	BANDA P.J.- UNDERSTANDING AND EXPLAINING OBSERVED VARIABILITY IN MICROWAVE AMPLIFIED STIMULATED EMISSION OF RADIATION (MASER) SOURCES IN NGC 6334 I	
12.30.12.45 PM	MUTHINI, J. - MODELLING POTENTIALLY DANGEROUS LARGE-EARTH IMPACTORS VIA COLLISIONAL MECHANICS	
12.45-1.00PM	QUESTIONS AND ANSWERS SESSION	
1.00-2.00PM	LUNCH BREAK	
	MILLENIUM HALL I	
2.00-2.30PM	PLENARY SESSION: KEYNOTE SPEAKER: PROF. WANDERA OGANNA, PRESIDENT OF THE COMMISSION FOR DEVELOPING COUNTRIES (CDC) - INTERNATIONAL MATHEMATICAL UNION (IMU) AND PROFESSOR OF MATHEMATICS, UNIVERSITY OF NAIROBI	CHAIR: Dr. J. Mutemi
2.30 – 3.00PM	PLENARY SESSION: KEYNOTE SPEAKER: PROF. MUTUA FRANCIS, PROFESSOR OF METEOROLOGY, UNIVERSITY OF NAIROBI	
3.00 – 3.30PM	PLENARY SESSION: KEYNOTE SPEAKER: PROF. POKHARIYAL GARNESH, PROFESSOR OF MATHEMATICS, UNIVERSITY OF NAIROBI.	
3.30-4.30 PM	CLOSING CEREMONY: DEAN SPS; DIRECTOR SOM; DIRECTOR SCIT/ICT AND THE PRINCIPAL CBPS	MC: Dr. C.Luhabo
4.20– 5 .00PM	TEA BREAK & DEPARTURE	

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