

ORAL PRESENTATIONS - MONDAY, MARCH 30, 2015**GRADUATE ENGINEERING I**

9:00 am – 12:00 pm - Presentations will be in the Research and Sponsored Programs Building, Room 163

9:00 AM	GR ENGR 1	ELECTROCHEMICAL CHARACTERIZATION OF ELECTRODE MATERIALS FOR MIXED-POTENTIAL SENSORS Jonathan Reynolds*. <i>Engineering</i> , College of Engineering. Advisor(s): S. Keith Hargrove, Cortney Kreller, Lizhi Ouyang and Richard Mu
9:15 AM	GR ENGR 2	A TESTBED FOR MODELING AND DETECTING ATTACKS ON NFC ENABLED PHONES Kimberly Gold*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty and Tamara Rogers
9:30 AM	GR ENGR 3	SCALABLE REAL-TIME DETECTION OF ANOMALIES IN SMARTPHONES Paul McNeil*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
9:45 AM	GR ENGR 4	ACCUMULATIVE FEEDBACK ADAPTATION TRANSMISSION RATE IN MOBILE AD HOC NETWORK Ashraf Al Sharah*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
10:00 AM	GR ENGR 5	TOWARDS A NETWORK AWARE VM MIGRATION: EVALUATING THE COST OF VM MIGRATION IN CLOUD DATA CENTERS Hellen Maziku*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
10:15 AM	GR ENGR 6	MEASUREMENT BASED APPROACH TO FAULT TOLERANT CONTROL OF MULTIVARIABLE SYSTEMS Sirisha Kallakuri*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Lee Hyun Keel

10:30 – 10:45 BREAK

10:45 AM	GR ENGR 7	DESIGN OF AN EXPERIMENTAL PLATFORM FOR CLOUD BASED MULTI-VEHICLE CONTROL SYSTEM Arafatur Rahman*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Lee-Hyun Keel and Liang Hong
11:00 AM	GR ENGR 8	SIZING OPTIMIZATION AND DYNAMIC SIMULATION OF AN HYBRID ENERGY SYSTEM Olumide Bello*and Kehinde Oke*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Landon Onyebueke
11:15 AM	GR ENGR 9	PROBABILISTIC ESTIMATION OF LONGITUDINAL PAVEMENT MARKINGS SERVICE LIFE Emmanuel Kidando*. <i>Civil and Environmental Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
11:30 AM	GR ENGR 10	COOPERTOWN UNSIGNALIZED INTERSECTION OPERATIONAL AND SAFETY EVALUATION AND COUNTERMEASURES RECOMMENDATION Tonjanika Robinson*. <i>Civil and Environmental Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
11:45 AM	GR ENGR 11	DESIGN OF INTELLIGENT FUZZY CONTROLLERS FOR LATERAL CONTROL OF LINEARIZED GTM MODELS Kevin Terrell*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Saleh Zein-Sabatto

GRADUATE SCIENCE I

9:00 am – 12:15 pm - Presentations will be in the Research and Sponsored Programs Building, Room 209

9:00 AM	GR SCI 1	COUPLING BIO/PHYTOREMEDIATION WITH SWITCHGRASS TO BIOFUEL FEEDSTOCK PRODUCTION IN MIXED-CONTAMINANT SOILS Oluwatosin Ogunmayowa*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Kudjo Dzanor
9:15 AM	GR SCI 2	MARKETING CHANNELS THAT LINK PRODUCERS WITH CONSUMERS Md. Jobaer Hossain*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Enefiok Ekanem and Mary Mafuyai

P R E S E N T A T I O N S C H E D U L E S

9:30 AM	GR SCI 3	EFFECTS OF PRECIPITATION CHANGE ON PHYSIOLOGY AND BIOMASS OF SWITCHGRASS Chih-Li Yu*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Dafeng Hui and Suping Zhou
9:45 AM	GR SCI 4	ECONOMIC ANALYSIS OF PRODUCTION OF BIODIESEL FROM SUMMER OIL SEED CROPS FOR SMALL FARMERS Suraj Adhikari*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Prabodh Illukpitiya, Fisseha Tegegne, Enefiok Ekanem and Bharat Pokharel
10:00 AM	GR SCI 5	INHERITANCE OF POWDERY MILDEW DISEASE RESISTANCE AND BROAD SENSE HERITABILITY IN FLOWERING DOGWOOD Srikanth Kodati*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Mmbaga
10:15 AM	GR SCI 6	COMPARATIVE ANALYSIS AND CHARACTERIZATION OF PROTEINS ASSOCIATED WITH FAT ACCRETION IN BROILER CHICKENS AND GUINEA FOWL Boniface Kimathi*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Samuel Nahashon
10:30 – 10:45	BREAK	
10:45 AM	GR SCI 7	ANTITUMOR PROPERTIES OF VIOLACEIN EXTRACTED FROM CHROMOBACTERIUM VIOLACEUM ISOLATED FROM A COPPER BASIN IN TENNESSEE Torat Mehta*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Quincy Quick and Terrance Johnson
11:00 AM	GR SCI 8	SYNTHESIS AND STRUCTURAL INVESTIGATION OF COORDINATION COMPLEX OF ZINC(II) AND 1,3-BIS(DI-TERTBUTYLPHOSPHINOMETHYL)BENZENE) LIGAND Montwaun Young*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Tasneem Siddiquee
11:15 AM	GR SCI 9	TRIBUTYL TIN ALTERS THE PRODUCTION AND SECRETION OF INFLAMMATORY CYTOKINES FROM HUMAN AND MOUSE IMMUNE CELLS Shanieek Lawrence*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Whalen
11:30 AM	GR SCI 10	CLONING AND EXPRESSION OF POLYHYDROXYBUTYRATE (PHB) GENES FROM THE NEW IDENTIFIED BACILLUS CEREUS TSU1 Hui Li*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Suping Zhou
11:45 AM	GR SCI 11	ANIMAL ASSISTED THERAPY ELICITS PRO-SOCIAL BEHAVIORS IN CHILDREN WITH AUTISM Taylor Reese*, Josh Lunn*, Sarah Ronin* and Halley Wiggins - Stagman*. <i>Physical Therapy</i> , College of Health Sciences. Advisor(s): Deborah Edmondson
12:00 PM	GR SCI 12	DOES ROBOTIC ASSISTED GAIT TRAINING (RAGT) DEMONSTRATE GREATER EFFICACY THAN TRADITIONAL PHYSICAL THERAPY INTERVENTIONS IN THE ATTEMPT TO IMPROVE THE GAIT OF PERSONS WITH A SPINAL CORD INJURY (ASIA RATING OF "C" OR "D")? Josh Burkett*. <i>Physical Therapy</i> , College of Health Sciences. Advisor(s): David Lehman

ORAL PRESENTATIONS - TUESDAY, MARCH 31, 2015

GRADUATE ENGINEERING II

9:00 am – 12:30 pm - Presentations will be in the Research and Sponsored Programs Building, Room 209

9:00 AM	GR ENGR 12	DEVELOPMENT OF BATTERY MODIFICATION SYSTEM FOR REDUCTION OF SEI FORMATION TIME Adrian Parker*. <i>Engineering</i> , College of Engineering. Advisor(s): S. Keith Hargrove and Lizhi Ouyang
9:15 AM	GR ENGR 13	REAL-TIME OPPORTUNISTIC SPECTRUM ACCESS IN COGNITIVE RADIO NETWORKS Kamrul Hasan*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty

P R E S E N T A T I O N S C H E D U L E S

9:30 AM	GR ENGR 14	DEVELOPMENT OF REAL-TIME COMPUTATIONAL INFRASTRUCTURE ON PRIVATE CLOUD DATA CENTER AT TENNESSEE STATE UNIVERSITY Waled Tayib*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
9:45 AM	GR ENGR 15	ENHANCED LEARNING CLASSIFIER TO LOCATE DATA IN CLOUD DATACENTERS Biswajit Biswal*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
10:00 AM	GR ENGR 16	WATERMARK ANALYSIS OF NETWORK TRACES FOR ANOMALY DETECTION Sai Kiran Mukkavilli*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
10:15 AM	GR ENGR 17	DEVELOPMENT OF A RESILIENT FORMATION CONTROL ALGORITHM FOR A TEAM OF AUTONOMOUS ROBOTS AGAINST NETWORK INTRUSION Esther Amullen*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Lee Keel
10:30 – 10:45	BREAK	
10:45 AM	GR ENGR 18	MEASUREMENT BASED APPROACH TO FAULT TOLERANT CONTROL OF MULTIVARIABLE SYSTEMS Sirisha Kallakuri*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Lee Hyun Keel
11:00 AM	GR ENGR 19	DETECTING VIRTUAL MACHINE CO-RESIDENCY IN CLOUD COMPUTING ENVIRONMENT WITH ACTIVE TRAFFIC James Savage*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
11:15 AM	GR ENGR 20	MODELING OF ENERGY HARVESTING SOURCES FOR LOW POWERED APPLICATION Kehinde Oke*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Landon Onyebueke
11:30 AM	GR ENGR 21	INJURY SEVERITY MODELING OF THE MEDIAN RELATED CRASHES AT CABLE BARRIER LOCATIONS Evarist Ruhazwe*. <i>Civil and Environmental Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
11:45 AM	GR ENGR 22	SIMULATION OF HURRICANE INDUCED STORM SURGE USING EXPLICIT AND IMPLICIT MODELS Simbarashe Kanjanda *. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Muhammad Akbar
12:00 PM	GR ENGR 23	DETECTION A MOVING OBJECTS IN DYNAMIC ENVIRONMENT USING A MOVING CAMERA Abdalla Al-Salah*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Saleh Zein-Sabatto and Mohammad Bodruzzaman

GRADUATE SCIENCE II

9:00 am – 12:00 pm Presentations will be in the Research and Sponsored Programs Building, Room 163

9:00 AM	GR SCI 13	EFFECT OF FLAME RETARDANT COMPOUNDS ON IL-1 β RELEASE FROM HUMAN IMMUNE CELLS Sharif Anisuzzaman*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Whalen
9:15 AM	GR SCI 14	A COMPREHENSIVE LITERATURE REVIEW ON THE CURRENT STRUCTURE OF THE GOAT MEAT INDUSTRY IN TENNESSEE Mikhail Miller*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Enefiok Ekanem and Mary Mafuyai
9:30 AM	GR SCI 15	INADEQUACY OF GRAM'S IODINE ASSAY TO DETECT CELLULOSE DEGRADATION DURING SCREENING FOR LIGNOCELLULOLYTIC BACTERIA AND FUNGI Joshua O'Hair*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Terrance Johnson and Anthony Ejiofor
9:45 AM	GR SCI 16	ISOLATION AND IDENTIFICATION OF ROOT ROT PATHOGENS OF COMMON BEANS Jacqueline Joshua*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Mmbaga
10:00 AM	GR SCI 17	WHAT CONSUMERS WANT IN GOAT MEAT J'Darvous Cross*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Enefiok Ekanem and Mary Mafuyai

P R E S E N T A T I O N S C H E D U L E S

10:15 AM	GR SCI 18	CLOSTRIDIUM DIFFICILE AN EMERGING FOODBORNE PATHOGEN IN RETAIL CHICKEN Olukunle Adekunle*. <i>Family and Consumer Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Agnes Kilonzo-Nthenge
10:30 – 10:45	BREAK	
10:45 AM	GR SCI 19	CYTOTOXIC ACTIVITY OF CURCUMIN, MELISSA, AND CLOVES EXTRACTS ON COLON, LUNG, AND BREAST CANCER CELL LINES Tiara Smith* and Asrab Hasan*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): E. Myles
11:00 AM	GR SCI 20	DIETARY LYSINE: EFFECTS ON LYSINE HOMEOSTASIS AND PERFORMANCE OF BROILER CHICKENS Collins Khwatenge*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Samuel Nahashon
11:15 AM	GR SCI 21	DEVELOPMENT OF GENOME-DIRECTED, PCR-BASED MOLECULAR DIAGNOSTIC SYSTEM FOR SOFT ROT ENTEROBACTERIACEAE M. Niamul Kabir*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Korsi Dumenyo
11:30 AM	GR SCI 22	IMPROVING SWEET POTATO PRODUCTION IN ORGANIC MANAGEMENT SYSTEM IN TENNESSEE Sochinwechi Nwosisi*. <i>Cooperative Extension</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Dilip Nandwani
11:45 AM	GR SCI 23	GRANT FUNDED PROGRAMMING TO ENHANCE MINORITY REPRESENTATION IN ALLIED HEALTHCARE EDUCATIONAL PROGRAMS AND PROFESSIONS Brandon Moorehead*. <i>Physical Therapy</i> , College of Health Sciences. Advisor(s): David Lehman, Darrius Brooks, Iris Arnold-Johnson and Christine Watt

GRADUATE SCIENCE III

1:00 pm – 3:45 pm Presentations will be in the Research and Sponsored Programs Building, Room

1:00 1:00 PM	GR SCI 24	COMBINATIONS OF GENISTEIN, EGCG AND/OR RESVERATROL SYNERGISTICALLY INHIBIT PRE-ADIPOCYTE DIFFERENTIATION BY SUPPRESSING PPAR-γ/C/EBP-α PATHWAY Bulbul Ahmed*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Hongwei Si, Samuel N. Nahashon and Xiaofei Wang
1:15 PM	GR SCI 25	COMPARATIVE CHARACTERS OF UPLAND COTTON CHROMOSOMAL SUBSTITUTION LINES UNDER GREENHOUSE Deependra Bhatta*. <i>Institutional Effectiveness & Research</i> , College of Institutional Effectiveness & Research. Advisor(s): Ahmad Aziz
1:30 PM	GR SCI 26	EVALUATION OF METHIONINE AND CYSTEINE REQUIREMENTS OF THE FRENCH GUINEA FOWL BROILER DeKarra Johnson*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Samuel Nahashon
1:45 PM	GR SCI 27	INVESTIGATION OF THE EFFECTS OF VIOLACEIN ON HUMAN SEROTONIN 2C RECEPTORS Letimicia Fears*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Hugh Fentress and Terrance L. Johnson
2:00 PM	GR SCI 28	CONSTRUCTION OF A GFP-BASED AND POSITIVE ANTIBIOTIC SELECTION TRANSPOSON FOR GENETIC STUDIES IN PHYTOPATHOGENIC ENTEROBACTERIACEAE Eric Nazareno*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Korsi Dumenyo
2:15 PM	GR SCI 29	QUANTITATIVE TRAIT LOCI (QTL) MAPPING AND IDENTIFICATION OF MARKERS LINKED TO POWDERY MILDEW RESISTANCE IN FLOWERING DOGWOOD (C.florida) POPULATION Lipi Parikh*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Mmbaga
2:30 – 2:45	BREAK	

P R E S E N T A T I O N S C H E D U L E S

2:45 PM	GR SCI 30	ANTI-PROLIFERATIVE EFFECT OF MORINGA OLEIFERA, GLOBIMETULA BRAUNNI AND CURCUMA LONGA EXTRACTS ON PANCREATIC CANCER CELLS Sochinwechi Nwosisi*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): E. Myles and Joy Okpuzor
3:00 PM	GR SCI 31	DEVELOPING NOVEL PROBIOTICS AND EVALUATING THEIR MECHANISMS OF INTERACTION WITH HOST ENVIRONMENT TO ENHANCE POULTRY PERFORMANCE Sarayu Bhogoju*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Samuel Nahashon
3:15 PM	GR SCI 32	SYNTHESIS AND ANTIBACTERIAL STUDY OF SCHIFF BASES FROM 2,2'-BIPYRIDYL-5,5'-DIALDEHYDE Md Hoq*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Mohammad Karim
3:30 PM	GR SCI 33	EXAMINING THE ASSOCIATION BETWEEN READING FOOD NUTRITION LABELS AND WEIGHT STATUS Arielle Arzu*. <i>Center for Prevention Research (CPR)</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Janice Emerson, Meghan Quirk and Van Cain

GRADUATE SCIENCE IV

1:00 pm – 3:45 pm *Presentations will be in the Research and Sponsored Programs Building, Room 161*

1:00 PM	GR SCI 34	GENOMIC DNA VERIFICATION IN SINGLE GAMETES COTTON CHROMOSOMAL SUBSTITUTION LINES THROUGH MOLECULAR MARKERS Abdul Mujeed Yakubu*. <i>Institutional Effectiveness & Research</i> , College of Institutional Effectiveness & Research. Advisor(s): Ahmad Aziz
1:15 PM	GR SCI 35	EXAMINING, PRODUCER PERCEPTIONS OF THE ROLE OF GOVERNMENT IN THE TENNESSEE MEAT GOAT INDUSTRY Allen Denkins*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Enefiok Ekanem, Mary Mafuyai, Fisseha Tegegne and Prabodh Illukpitiya
1:30 PM	GR SCI 36	ASSESSMENT OF PATHOGENESIS RELATED PROTEINS AND ENZYME ACTIVITY OF BACTERIAL BIOLOGICAL CONTROL AGENTS IN CORNUS FLORIDA Emily Rotich*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Mmbaga and Parama Sikdar
1:45 PM	GR SCI 37	CYTOTOXICITY ACTIVITIES OF LEMON BALM, WORMWOOD, COSTUS, AND GUAVA LEAVES PLANT EXTRACTS ON CANCER CELL LINES Naif Alhawiti* and Heba Alhamdi*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): E. Myles
2:00 PM	GR SCI 38	CHARACTERIZATION OF CHICKEN AND GUINEA FOWL GASTROINTESTINAL TRACT MICROBIAL PROFILES USING THE 16sRNA HYPER-VARIABLE REGION Joseph Donkor*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Samuel Nahashon
2:15 PM	GR SCI 39	AN EXAMINATION ON THE EXPRESSION OF GLUCOSE TRANSPORTERS IN CHICKENS Mary Shannon Byers*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Xiaofei Wang

2:30 – 2:45 **BREAK**

2:45 PM	GR SCI 40	EFFECTS OF PENTACHLOROPHENOL (PCP) ON SECRETION OF INTERLEUKIN 1- BETA FROM HUMAN IMMUNE CELLS Tamara Martin*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Whalen
3:00 PM	GR SCI 41	DEVELOPMENT OF A RECOMBINANT BACTERIOCIN FOR PROBIOTICS APPLICATIONS Ahsan Raza*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Samuel Nahashon
3:15 PM	GR SCI 42	PHYSIOLOGICAL PROPERTIES AND PROTEOME EXPRESSION IN DROUGHT TREATED SWITCHGRASS Zhujia Ye* and Chihli Yu. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Suping Zhou, Dafeng Hui and Theodore W. Thannhauser

P R E S E N T A T I O N S C H E D U L E S

3:30 PM	GR SCI 43	STUDENTS WERE SURVEYED ABOUT FACULTY WITH ACCENTS Rachael Price*, Melissa Bukovi*, Rachel Loggins* and Samantha Williams*. <i>Speech Pathology and Audiology</i> , College of Health Sciences. Advisor(s): Iris Johnson Arnold, Owen Johnson and Jame'l Hodges
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ORAL PRESENTATIONS - WEDNESDAY, APRIL 1, 2015

GRADUATE SCIENCE V

9:00 am – 12:00 pm Presentations will be in the Research and Sponsored Programs Building, Room 163

9:00 AM	GR SCI 44	COMPARATIVE SEED TRAITS' PROFILING OF UPLAND COTTON LINE WITH PIMA COTTON CHROMOSOMAL SUBSTITUTIONS Diwas K. Silwal ¹ *, A. N. Aziz ¹ *, Ankit Patras ¹ , Bharat Pokhare ¹ , Nsoki Phambu ² , Sukumar Saha ³ . <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Ahmad Aziz, Ankit Patras and Phambu Nsoki
9:15 AM	GR SCI 45	STUDY OF ENDOPHYTIC DIVERSITY OF FLOWERING dogwoods (<i>Cornus florida</i> L.) AND ALSO ASSESS THEIR CYTOTOXICITY Asha Maheshwari*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Mmbaga
9:30 AM	GR SCI 46	OCCURRENCE OF GENERIC ESCHERICHIA COLI, E. COLI O157 AND SALMONELLA SPP. IN FRESH PRODUCE FROM SMALL AND MEDIUM SIZE FARMS IN TENNESSEE Jessica Domphe*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Agnes Kilonzo-Nthenge, Samuel Nahashon, John T. Robinson, Jr. and Terrance Johnson
9:45 AM	GR SCI 47	ACTIVATION OF THE JAK/STAT PATHWAY BY THE HUMAN SEROTONIN 2C RECEPTOR Marybeth Curtis*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Hugh Fentress
10:00 AM	GR SCI 48	PERCEPTION VERSUS REALITY: WHICH IS MORE IMPORTANT IN THE FIGHT AGAINST CHILDHOOD OBESITY? Melissa Diniz* and Erika Stanley*. <i>Center for Prevention Research (CPR)</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Janice Emerson, Meghan Quirk and Van Cain
10:15 AM	GR SCI 49	EFFECT OF DROUGHT ON SWITCHGRASS QUALITY FOR BIOENERGY PRODUCTION Priya Saini*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Jason de Koff

10:30 -10:45 BREAK

10:45 AM	GR SCI 50	POWDERY MILDEW ON COWPEA: A NEW DISEASE OF LATE SEASON PRODUCTION Devendra Bhandari*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Matthew Blair and Margaret Mmbaga
11:00 AM	GR SCI 51	PERFORMANCE AND EGG CHARACTERISTIC OF PEARL GREY GUINEA FOWLS FED VARYING LEVELS OF LYSINE Joseph Donkor*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Samuel Nahashon
11:15 AM	GR SCI 52	AN EXAMINATION OF THE ROLE OF WNT INHIBITORY FACTOR IN ADIPOSE TISSUE DEVELOPMENT Manal Alsaedi*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Xiaofei Wang, Hugh Fentress, Elbert Myles and Bulbul Ahmed
11:30 AM	GR SCI 53	ECONOMIC ANALYSIS OF PRODUCTION OF BIOFUEL AND ELECTRICITY GENERATION FROM CORN STOVER FOR SMALL FARMERS Ibukun Alegbeleye*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Prabodh Illukpitiya, Fisseha Tegegne and Enefiok Ekanem
11:45 AM	GR SCI 54	PdCl₂(Dtbpf), AN EFFECTIVE CATALYST FOR C-H ACTIVATION AND CROSS-COUPLED WITH STYRYLTRIFLUOROBORATES Wejdan Shaban*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Mohammad Al-Masum

UNDERGRADUATE ENGINEERING

9:00 am – 11:45 am

Presentations will be in the Research and Sponsored Programs Building, Room 161

9:00 AM	UG ENGR 1	GRAPHICAL USER INTERFACE BASED TOOLS TO AUTOMATE HURRICANE STORM SURGE MODELING TO SETUP AN EVACUATION PLAN Samuel Bustelo*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Muhammad Akbar
9:15 AM	UG ENGR 2	MULTI-SCALE INTEGRATED HURRICANE STORM SURGE SIMULATION TO SETUP AN EVACUATION PLAN Adriann Wilson*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Muhammad Akbar
9:30 AM	UG ENGR 3	GRAPHICAL USER INTERFACE BASED TOOLS TO AUTOMATE HURRICANE STORM SURGE MODELING TO SETUP AN EVACUATION PLAN Samuel Bustelo*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Muhammad Akbar
9:45 AM	UG ENGR 4	LIGHTWEIGHT HELIOGYRO SOLAR SAIL RESEARCH AT NASA Bobby Gleghorn*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Jiann-Shiun Lew and Lucas Horta
10:00 AM	UG ENGR 5	ASSESS SECURITY RISK OF GOOGLE GLASS Jared Wagnac*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty and Tamara Rogers
10:15 AM	UG ENGR 6	INTERACTIVE AND IMMERSIVE VISUALIZATION OF ENGINEERING SYSTEMS Marc Primeau* and Dan Fishler*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
10:30 – 10:45 BREAK		
10:45 AM	UG ENGR 7	HUMAN INTERFACE MODULE DESIGN TO STUDY FOR 3DROBOTS QUADCOPTER CONTROL Ryan Stubbs*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Lee-Hyun Keel
11:00 AM	UG ENGR 8	LI-ION BATTERY CAPACITY FADE MODELING AND SIMULATION USING COMSOL Corey Zusin*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Landon Onyebueke and Lizhi Ouyang
11:15 AM	UG ENGR 9	EFFECT OF ENVIRONMENTAL PARAMETERS ON POWER GENERATION OF A PHOTOVOLTAIC MODULE Ebholo Ijeh* and Olumide Bello*. <i>Mechanical and Manufacturing</i> , College of Engineering. Advisor(s): Muhammad Akbar and Landon Onyebueke
11:30 AM	UG ENGR 10	EVALUATING CHARACTERISTICS OF TRAFFIC CRASHES IN THE VICINITY OF TENNESSEE STATE UNIVERSITY James Jones*. <i>Civil and Environmental Engineering</i> , College of Engineering. Advisor(s): Deo Chimba

UNDERGRADUATE SCIENCE

9:00 am – 11:45 am

Presentations will be in the Research and Sponsored Programs Building, Room 209

9:00 AM	UG SCI 1	EXPANDING MARKETING SYSTEMS FOR MEAT GOAT PRODUCERS IN TENNESSEE George Davis*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Enefiok Ekanem and Mary Mafuyai
9:15 AM	UG SCI 2	GROWTH INHIBITORY EFFECT OF PERGANUM, SAGE, AND OLIVE LEAVES PLANT EXTRACTS ON BREAST AND LUNG CANCER CELL LINES Carla Gibbs*, Ola Almusallam* and Trent Malone*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): E. Myles
9:30 AM	UG SCI 3	HOW LONG CAN SALMONELLA SURVIVE ON THE SURFACES OF FOOD PACKAGES? Marian Wakefield* and Himabindu Gazula. <i>Family and Consumer Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Fur-Chi Chen and Sandria Godwin

P R E S E N T A T I O N S C H E D U L E S

9:45 AM	UG SCI 4	THE DISTRIBUTION OF CALBINDIN AND CALRETININ IN THE AUDITORY CORTEX OF MARMOSET MONKEYS Sterling Hubbard* and Lisa de la Mothe. <i>Psychology</i> , College of Education. Advisor(s): Lisa de la Mothe
10:00 AM	UG SCI 5	OCCURRENCE OF EXTENDED-Spectrum β-LACTAMASE- AND AmpC-PRODUCING ENTEROBACTERIACEAE FROM POULTRY FARMS AND RAW CHICKEN SOLD IN LOCAL MARKETS Kourtney Daniels*. <i>Family and Consumer Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Agnes Kilonzo-Nthenge
10:15 AM	UG SCI 6	NEW FLUORINATION PROCESS BY THE MICROWAVE IRRADIATED CROSS-COUPPLING REACTION OF POTASSIUM ARYLTRIFLUOROBORATES AND METAL FLUORIDE Rebecca Welch*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Mohammad Al-Masum
10:30 – 10:45 BREAK		
10:45 AM	UG SCI 7	GENERATION AND CHARACTERIZATION OF THE PROLINE280LEUCINE SINGLE NUCLEOTIDE POLYMORPHISM IN THE HUMAN SEROTONIN 2C RECEPTOR Leonel Herrera-Flores*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Hugh Fentress and Michael T. Ivy
11:00 AM	UG SCI 8	THE STUDENTS DISCUSS COMMUNICATION IN THE CLASSROOM Isabella Kearney*, Stephanie Austin* and Stephanie Dixon*. <i>Speech Pathology and Audiology</i> , College of Health Sciences. Advisor(s): Iris Johnson Arnold, Owen Johnson and Jame'l Hodges
11:15 AM	UG SCI 9	MARKETING CHANNELS USED BY SMALL FARMERS IN TENNESSEE Bambata Hogue*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Enefiok Ekanem and Mary Mafuyai
11:30 AM	UG SCI 10	THE DISTRIBUTION OF CALBINDIN AND CALRETININ IN THE FRONTAL CORTEX OF MARMOSET MONKEYS Kiona Coleman* and Lisa de la Mothe. <i>Psychology</i> , College of Education. Advisor(s): Lisa de la Mothe

ORAL PRESENTATIONS - FRIDAY APRIL 3, 2015

FACULTY

8:45 am – 11:30 am

Presentations will be in the Research and Sponsored Programs Building, Room 163

8:45 AM	FAC O 1	WOODROW WILSON, THE OTTOMANS, AND THE UNINTENDED CONSEQUENCES OF NEUTRALITY Andrew Patrick*. <i>History, Geography and Political Science</i> , College of Liberal Arts
9:00 AM	FAC O 2	LEADERSHIP COMPETENCIES OF EXTENSION AGENTS: IMPLICATIONS FOR PROFESSIONAL DEVELOPMENT John Hall* and Thomas Broyles. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
9:15 AM	FAC O 3	THE GENDER DIVIDE IN AGRICULTURE Mary Mafuyai*, Enefiok Ekanem, and Fisseha Tegegne. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
9:30 AM	FAC O 4	DEVELOPMENT OF A NAVIGATION SYSTEM SOFTWARE FOR OBSTACLE AVOIDANCE IN A DYNAMIC ENVIRONMENT Maged Mikhail* and Saleh Zein-Sabatto. <i>Electrical and Computer Engineering</i> , College of Engineering
9:45 AM	FAC O 5	ECONOMIC IMPACT: POTENTIAL BENEFITS OF EXPANDING NURSERY RESEARCH CENTER FACILITIES Hiren Bhavsar*, Fisseha Tegegne, and Enefiok Ekanem. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
10:00 AM	FAC O 6	ESTIMATING THE ECONOMIC IMPACTS OF LOCAL FOOD MARKETS ON SELECTED RURAL AREAS IN TENNESSEE Enefiok Ekanem* and Mary Mafuyai. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences

P R E S E N T A T I O N S C H E D U L E S

10:15 AM	FAC O 7	MENTORING PRACTICES AND HBCUS: GRADUATE STUDENTS' PERCEPTION OF AN IDEAL MENTOR Andrea L. Tyler* and Janet Finch.* <i>Education Administration</i> , College of Education
10:30 AM	FAC O 8	THE rsmD LOCUS ENCODING A GGDEF AND EAL DOMAIN PROTEIN CONTRIBUTES TO VIRULENCE IN THE SOFT ROT AND BLACKLEG PATHOGEN, PECTOBACTERIUM ATROSEPTICUM C. Korsi Dumenyo*, Urmila Adhikari, and Rabiul Islam, and Caleb M. Kersey. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
10:45 AM	FAC O 9	SMALL TOWN RESIDENTS' PERCEPTIONS OF ECONOMIC AND COMMUNITY DEVELOPMENT Ruthie Reynolds*, Lonnie Sharpe, Anis Mnif, Paula Roberts*, and Martha Cowan. Center for Entrepreneurship and Economic Development
11:00 AM	FAC O 10	MARKETING OF TENNESSEE'S SMALL FARMER PRODUCE: THE ROLE OF AGRICULTURAL COOPERATIVES Enefiok Ekanem*, Oladayo Omosa, and Mary Mafuyai. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
11:15 AM	FAC O 11	FILM, ART, AND THE GAME OF LIFE Kelle Neal*. <i>Language, Literature, and Philosophy</i> , College of Liberal Arts

POSTER PRESENTATIONS

Posters will be displayed in the Jane Elliott Hall Auditorium, March 31, 2015 – April 2, 2015

FACULTY POSTERS

FAC-P 1	POTENTIAL FOR INCORPORATION OF A PLANT ESSENTIAL OIL FOR MANAGING IMPORTED FIRE ANTS IN ORNAMENTAL NURSERIES Karla Addesso*, Jason Oliver, Paul O'Neal, and Nadeer Youssef. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
FAC-P 2	NURSE FACULTY AND PROFESSIONAL DEVELOPMENT: A STUDY OF THE EFFECT OF THE TYPE AND TIMING OF PROFESSIONAL DEVELOPMENT AND JOB SATISFACTION IN THE NURSE FACULTY ROLE Pinky Noble-Britton*. <i>Nursing</i> , College of Health Sciences
FAC-P 3	IDENTIFYING EXTENSION AGENTS PERCEIVED LEVEL OF IMPORTANCE OF LEADERSHIP SKILLS IN TENNESSEE John Hall* and Tom Broyles. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
FAC-P 4	WOULD COMBINING A HANDHELD HIGH FREQUENCY VIBRATION TO CONSERVATIVE TREATMENT WHEN COMPARED WITH CONSERVATIVE TREATMENT ALONE, LEAD TO INCREASED RANGE OF MOTION AND DECREASED TOTAL THERAPY DURATION IN PATIENTS WITH ADHESIVE CAPSULITIS? Kevin Lawrence*. <i>Physical Therapy</i> , College of Health Sciences
FAC-P 5	EVALUATION OF YIELD POTENTIAL IN COMMERCIAL COWPEA VARIETIES Matthew W. Blair*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
FAC-P 6	DEVELOPMENT OF MUNG BEAN/SWEET CORN INTERCROPPING Matthew W. Blair*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
FAC-P 7	THE RELATIONSHIP BETWEEN STUDENT'S GRADE POINT AVERAGE AND PASSING RATES OF THE REGISTERED HEALTH INFORMATION MANAGEMENT ADMINISTRATOR NATIONAL CERTIFICATION EXAM Valerie Brock*. <i>Health Information Management</i> , College of Health Sciences
FAC-P 8	EXPLORING ONLINE MARKETING OPPORTUNITIES FOR SMALL FARMERS Mary Mafuyai*, Enefiok Ekanem*, Prabodh Illukpitiya, An Peischel, and Fisseha Tegegne. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences
FAC-P 9	FACTORS INFLUENCING MARKET EXPANSION OF MEAT Mary Mafuyai*, Enefiok Ekanem, and Fisseha Tegegne. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences

FAC-P 10	EFFECTS OF NO-TILLAGE AND IMPROVED FERTILIZER MANAGEMENT ON CORN YIELD AND SOIL N₂O EMISSION IN MIDDLE TENNESSEE Qi Deng*, Dafeng Hui, Sam Dennis, Junming Wang, Tigist Jima, Stephen Iwuzo, Chih-Li, David Smart, and Chandra Reddy. Biological Sciences, <i>College of Agriculture, Human and Natural Sciences</i>
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GRADUATE POSTERS

GRADUATE POSTER JUDGING THURSDAY APRIL 2, 2015

9:00 a.m. – 11:00 a.m. in Jane Elliott Hall Auditorium

GR-P 1	IMPACT OF SUBOPTIMAL MACRO AND MICRONUTRIENT SUPPLY ON BIOMASS PRODUCTION OF CUCUMBER (<i>Cucumis sativus</i> L.) Garrett Morris*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Dharmalingam Pitchay
GR-P 2	DIVING INTO THE REALM OF AQUATIC TREADMILL TRAINING FOR CHILDREN WITH CEREBRAL PALSY Michael Hill*, Kristen McAuliffe*, Pamela Watkins*, April Wheeler*, and Edilberto Raynes. <i>Physical Therapy</i> , College of Health Sciences. Advisor(s): Edilberto Raynes
GR-P 3	EFFECTS OF TRIBUTYLtin EXPOSURES ON INTERLEUKIN 1 BETA SECRETION AND PRODUCTION FROM HUMAN IMMUNE CELLS Shyiretha Brown*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Whalen
GR-P 4	CRYOTHERAPY APPLICATION: TIMING AND DOSAGE FOR DECREASING PAIN AND CONTROLLING INFLAMMATION Jesse Davenport*, Scott Dunham*, Drew Kiel* and Lucas Wall*. <i>Physical Therapy</i> , College of Health Sciences. Advisor(s): Ronald Barredo
GR-P 5	IDENTIFICATION AND CLONING OF NOVEL CELLULOSE GENES FROM GOAT'S RUMEN METAGENOME Santosh Thapa* and Hui Li*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Suping Zhou
GR-P 6	CLOUD BASED OPPORTUNISTIC SPECTRUM ACCESS FOR COGNITIVE RADIO NETWORKS Ayodeji Borode*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
GR-P 7	GREENHOUSE AND IN VITRO EVALUATION OF AMARANTH SEEDLING CHARACTERISTICS Ranjita Thapa* and Matthew Edwards*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Matthew Blair and Tim Johnson
GR-P 8	APPLICATION OF ADVANCED OPTICAL TECHNOLOGIES FOR TREATING MYCOTOXINS Sharath Chandra Julakanti*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Ankit Patras and Bharath Pokharel
GR-P 9	A PILOT STUDY PROPOSAL TO DETERMINE IF A NEW AQUATIC EXERCISE APPARATUS (AQUABOOM) IS EFFECTIVE IN ENHANCING UPPER EXTREMITY STRENGTH AND A MUSCULAR ENDURANCE Logan Hays*, Grant Hitchens* and Tam Tran*. <i>Physical Therapy</i> , College of Health Sciences. Advisor(s): David Lehman and Timothy Jones
GR-P 10	MARKETING OF NURSERY AND GREENHOUSE PRODUCTS IN TENNESSEE Kofi Baryeh* and Samuel Gray*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Fisseha Tegegne, Hiren Bhavsar and Enefiok Ekanem
GR-P 11	LEAF MORPHOLOGICAL AND ANATOMICAL DIFFERENCES OF PLANT SPECIES REPRESENTING C3, C4 AND CAM PHOTOSYNTHESIS Mary Jane Espina*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Ali Taheri and Dharmalingam Pitchay
GR-P 12	EVALUATION OF PHOTOSYNTHETIC TRAITS IN COMMERCIAL COWPEA VARIETIES Xingbo Wu*, Chih Li* and Trevor Johnston. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Matthew Blair and Dafeng Hui
GR-P 13	OPTIMIZATION OF DNase HYPERSENSITIVITY SITE DETECTION PROTOCOLS FOR GENOME-WIDE MAPPING OF REGULATORY DNA REGIONS Nicholas Cook*, Azzah Baashirah* and Eilaf Alqureish*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Xiaofei Wang

GR-P 14	THE EFFECT OF PILATES ON POSTURAL INSTABILITY IN EARLY TO MID-STAGE PARKINSON'S DISEASE Jeffrey Berger*, Morgan Faulkner*, Nancy Hedges* and Amanda McPeck*. <i>Physical Therapy</i> , College of Health Sciences. Advisor(s): Ronald Barredo and Rosalyn Pitt
GR-P 15	A COMPARISON OF DIAGNOSTIC IMAGING AND VIBRATING TUNING FORKS IN THE DETECTION OF BONY STRESS FRACTURES: A REVIEW OF THE LITERATURE Ashleigh Elkins*, Kelsey Nikkila*, Andrew Kneeburg*, Jason Danielson*, Thomas Austin* . <i>Physical Therapy</i> , College of Health Sciences. Advisor(s): Derek Charles
GR-P 16	SURVIVAL ANALYSIS AND DETECTION OF ESCHERICHIA COLI O157:H7, SALMONELLA spp. AND LISTERIA MONOCYTOGENES ON FRESH STRAWBERRY. Himabindu Gazula*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Suping Zhou and Furchi-Chen
GR-P 17	USING SPATIAL STATISTICAL TOOLS TO CORRELATE BICYCLE AND PEDESTRIAN CRASHES WITH SOCIO-DEMOGRAPHICS Abram Musinguzi*. <i>Civil and Environmental Engineering</i> , College of Engineering. Advisor(s): Deo Chimba
GR-P 18	MUNG BEAN AS A POTENTIAL CROP IN TENNESSEE: ADVANTAGES AND LIMITATIONS Faridul Md. Islam*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Matthew Blair and T.S. Johnston
GR-P 19	EFFECT OF CHOLESTEROL ON THE INTERACTION BETWEEN AN ANTIMICROBIAL PEPTIDE AND MODEL MEMBRANES Angela Stone*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Nsoki Phambu
GR-P 20	SYNTHESIS, CHARACTERIZATION AND ANTIBACTERIAL STUDY OF SCHIFF BASES DERIVED FROM 6,6'-DIMETHYL 2,2'-BIPYRIDINE. Md. Razzak*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Mohammad Karim
GR-P 21	ASSOCIATION OF LEAF MICRO-MORPHOLOGICAL CHARACTERS WITH POWDERY MILDEW DISEASE RESISTANCE IN FLOWERING DOGWOOD Srikanth Kodati*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Mmbaga
GR-P 22	PREVALENCE OF PATHOGENIC AND COMMENSAL BACTERIA IN LOCAL AND IMPORTED FRESH PRODUCE Siqin Liu*. <i>Family and Consumer Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Agnes Kilonzo-Nthenge
GR-P 23	THE IMPACT OF THE AFFORDABLE CARE ACT AND COVERAGE GAPS ON EMPLOYERS IN TENNESSEE: A WHITE PAPER Nicole Glover*, Onyeka Arinze, Artchalee Calvert, Melissa Diniz*, Alexander Love* and Alandrea Plump. <i>Healthcare Administration & Health Sciences</i> , College of Health Sciences. Advisor(s): Elizabeth Brown
GR-P 24	SCREENING FOR RESISTANCE TO COMMON BACTERIAL BLIGHT IN DRY BEAN (PHASEOLUS VULGARIS) GERmplasm. Jacqueline Joshua*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Mmbaga and Matthew Blair
GR-P 25	VEGETABLE COWPEA (YARD-LONG BEAN) VARIETAL EVALUATION Devendra Bhandari* and Abimbola Allison. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Matthew Blair
GR-P 26	A NEW PROCESS OF SYNTHESIZING ANANDAMIDE DERIVATIVES FROM ARACHIDONIC ACID IN THE PRESENCE OF BORON CATALYST Linda Quinones*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Mohammad Al-Masum
GR-P 27	EFFECT OF IRON AND ZINC RATE ON THE VEGETATIVE GROWTH AND DEVELOPMENT OF BROCCOLI (BRASSICA OLERACEA) Steven Kennedy*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Dharmalingam Pitchay
GR-P 28	HEXABROMOCYCLODODECANE AND TETRABROMOBISPHENOL A ALTER SECRETION OF INTERFERON GAMMA (IFNγ) FROM HUMAN IMMUNE CELLS Haifa Almughamsi*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Whalen
GR-P 29	IMPACTS OF WNT INHIBITORY FACTOR-1 (WIF-1) ON THE DIFFERENTIATION OF PREADOPCYTES Duaa Babaer*, Mary Shannon Byers*, Mahmoud Gaballa* and Manal Alsaedi*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Xiaofei Wang
GR-P 30	THE MARKET FOR SCHOOLING IN TENNESSEE Timothy Walker*. <i>Public Administration</i> , College of Public Service & Urban Affairs. Advisor(s): Meg Streams
GR-P 31	VALIDATING HOST-SPECIFICITY IN ERWINIA TRACHEIPHILA-CUCURBITACEAE INTERACTIONS IN A GREENHOUSE TRIAL Eric Nazareno*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Korsi Dumenyo

GR-P 32	WHITE PAPER: COVERAGE GAP ISSUES AMONG HOSPITALS AND HEALTHCARE SYSTEMS IN TENNESSEE Lauren Buford*, Delisha Crawford*, Moise Findley*, Rhoda Oaihimore* and Ruth Oaihimore*. <i>Healthcare Administration & Health Sciences</i> , College of Health Sciences. Advisor(s): Elizabeth Brown
GR-P 33	ESTIMATION OF NARROW SENSE HERITABILITY OF POWDERY MILDEW RESISTANCE IN PSEUDO F2 (F1) POPULATION OF FLOWERING DOGWOODS (<i>Cornus florida</i> L.) Lipi Parikh*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Mmbaga
GR-P 34	COMPARATIVE ANTHOR AND MICROSPOR STAGES IN THE UPLAND COTTON CHROMOSOME SUBSTITUTION LINES Shreya Singh Hamal*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Ahmad Aziz
GR-P 35	FOLIAR TISSUE STANDARDS FOR HYDROPONICALLY GROWN ROMAINE LETTUCE (<i>Lactuca sativa</i> L. var. <i>longifolia</i>) Grija Vijayan*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Dharmalingam Pitchay
GR-P 36	EFFECTS OF FLAME RETARDANTS, HBCD AND TBBPA, ON SECRETION OF TUMOR NECROSIS FACTOR ALPHA (TNFα) FROM HUMAN IMMUNE CELLS Sharia Yasmin*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Whalen
GR-P 37	SYNTHESIS, CHARACTERIZATION, AND X-RAY STRUCTURE DETERMINATION OF FLUORINATED 9-AMINO ACRIDONE DERIVATIVES Alexis Sledge*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Cosmos Okoro

UNDERGRADUATE POSTERS

UNDERGRADUATE POSTER JUDGING THURSDAY APRIL 2, 2015

1:00 p. m. – 3:00 p. m. in Jane Elliott Hall Auditorium

UG-P 1	MEETING CONSUMER DEMAND FOR ORGANIC FOOD: AN INVESTMENT OPPORTUNITIES FOR NATURE BASED FOOD ENTERPRISES Beatrice Scaif*. <i>Agricultural Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Prabodh Illukpitiya
UG-P 2	ASSESSING VULNERABILITIES IN A NEAR FIELD COMMUNICATION SYSTEM Michael Alexander*. <i>Electrical and Computer Engineering</i> , College of Engineering. Advisor(s): Sachin Shetty
UG-P 3	TRIBUTYL TIN DECREASES SECRETION OF INTERLEUKIN 6 (IL-6) FROM HUMAN IMMUNE CELLS Wendy Wilburn*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Whalen
UG-P 4	THE RELATIONSHIP BETWEEN EDUCATIONAL EXPECTATIONS AND SOCIAL CLASS VERSUS PARENTAL EDUCATION AMONG STEM STUDENTS Elisabeth Stansberry*. <i>Psychology</i> , College of Education. Advisor(s): Marie Hammond
UG-P 5	ASSESSMENT OF SEA ANEMONE FEEDING BEHAVIOR Chase Richard*. <i>Biological Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Michael Ivy
UG-P 6	DISTRIBUTION OF CALCIUM BINDING PROTEINS IN THE PULVINAR OF THE MACAQUE MONKEY Chelsea Marlin* and Lisa de la Mothe. <i>Psychology</i> , College of Education. Advisor(s): Lisa de la Mothe
UG-P 7	CHOOSING SALIENT COLORS FOR ITEMS ON CLUTTERED MAP DISPLAYS. James Ellison* and Santos Santoni-Sanchez*. <i>Psychology</i> , College of Education. Advisor(s): Joshua Shive
UG-P 8	BRIDGING THE LEARNING GAP DIVIDE IN COMPUTER AND STATISTICAL ANALYSIS Marvis Denzel Epperson* and Upasna Paul*. <i>Agricultural and Environmental Sciences</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Enefiok Ekanem and Mary Mafuyai
UG-P 9	MECHANISM OF TRIBUTYL TIN-INDUCED SECRETION OF A PRO-INFLAMMATORY CYTOKINE, INTERFERON GAMMA, FROM HUMAN LYMPHOCYTES Margarita Peete*. <i>Chemistry</i> , College of Agriculture, Human and Natural Sciences. Advisor(s): Margaret Whalen