## PRESENTATION SCHEDULES

### ORAL PRESENTATION - MONDAY, MARCH 22, 2021

#### GRADUATE - AGRICULTURAL SCIENCES - SESSION 1

*Presentations from 9:00 AM - 11:00 AM*

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<th>Authors</th>
<th>Advisors</th>
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<tr>
<td>9:00 AM</td>
<td>A101</td>
<td>EVALUATION, IDENTIFICATION, AND CHARACTERIZATION OF NOVEL GROWTH-PROMOTING BACTERIAL ENDOPHYTES AS ECO-FRIENDLY PRODUCTS TO ENHANCE SORGHUM GROWTH AND BIOMASS TRAITS</td>
<td>Adam Traore*</td>
<td>Christine Ondzighi-Assoume, Margaret Mmbaga</td>
</tr>
<tr>
<td>9:20 AM</td>
<td>A106</td>
<td>ON UNDERSTANDING THE ADSORPTION MECHANISMS OF SELECTED MICRONUTRIENTS ON TENNESSEE SOIL: A MACROSCOPIC AND IN SITU ATTENUATED TOTAL REFLECTANCE FOURIER TRANSFORM INFRARED SPECTROSCOPIC STUDY</td>
<td>Avedananda Ray*</td>
<td>Sudipta Rakshit, Bharat Pokharel</td>
</tr>
<tr>
<td>9:40 AM</td>
<td>A107</td>
<td>INCREASING SEED PRODUCTION AND SUSTAINABLE VEGETABLE OIL YIELDS THROUGH CELL CULTURE SYSTEMS AND CRISPR-CAS9 GENOME-EDITING TECHNOLOGY IN SOYBEAN</td>
<td>Gabriel Carrasquillo*</td>
<td>Christine Ondzighi-Assoume</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>A20</td>
<td>COVER CROP USAGE FOR THE SUSTAINABLE MANAGEMENT OF SOILBORNE DISEASES IN WOODY ORNAMENTAL NURSERY PRODUCTION SYSTEM</td>
<td>Madhav Parajuli*, Milan Panth</td>
<td>Fulya Baysal-Gurel</td>
</tr>
<tr>
<td>10:20 AM</td>
<td>A22</td>
<td>POSTHARVEST DISEASE CAUSED BY FUSARIUM COMMUNE: A NEW THREAT TO ZINNIA CUT FLOWER PRODUCTION</td>
<td>Ravi Bika*, Farhat Avin</td>
<td>Fulya Baysal-Gurel</td>
</tr>
<tr>
<td>10:40 AM</td>
<td>A23</td>
<td>MANAGEMENT OF PHYTOPHTHORA ROOT ROT OF BOXWOOD USING FUNGICIDES, BIOFUNGICIDES, FERTILIZERS AND HOST PLANT DEFENSE INDUCERS IN FIELD CONDITIONS</td>
<td>Sandhya Neupane*, Terri Simmons</td>
<td>Fulya Baysal-Gurel</td>
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#### GRADUATE ENGINEERING and COMPUTER SCIENCE - SESSION 1

*Presentations from 9:00 AM - 10:40 AM*

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<tr>
<td>9:00 AM</td>
<td>A102</td>
<td>TESTING A SYSTEM TO STUDY THE ELECTROCHEMICAL AND STRUCTURAL PROPERTIES OF IONIC LIQUIDS</td>
<td>Jonathan Reynolds*</td>
<td>Samuek K Hargrove, Jerzy Chlistunoff, Tommy Rockward, Lizhi Ouyang, Landon Onyebueke</td>
</tr>
<tr>
<td>9:20 AM</td>
<td>A109</td>
<td>HOMOGENIZATION-BASED OPTIMIZATION OF LATTICE STRUCTURES USING GRANULAR MICROMECHANICS APPROACH</td>
<td>Yahaira Corona*</td>
<td>Ranganathan Parthasarathy</td>
</tr>
</tbody>
</table>
9:40 AM  A110  TWINTING-LIKE BEHAVIOR IN TENSEGRITY STRUCTURES
Kehinde Omotayo*, Armin Motadel. Civil and Architectural Engineering, College of Engineering Advisor(s): Ranganathan Parthasarathy, Srinivasan Sivakumar

10:00 AM  A16  EFFECTS OF LASER POWDER BED FUSION (LBPF) PROCESS PARAMETERS ON ADDITIVE MANUFACTURED PARTS
Anne Munyasia*. Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Abiodun Fasoro, Lee-Hyun Keel

10:20 AM  A17  IN-SITU ADDITIVE MANUFACTURING MONITORING USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR (CMOS) TECHNOLOGY
Ayodeji Fawole*. Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Abiodun Fasoro, Lee-Hyun Keel

*Denotes Presenters
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<tr>
<td>1:00 PM</td>
<td>A24</td>
<td>EFFICACY OF FUNGICIDES AND BIOFUNGICIDES TO MANAGE PHYTOPHTHORA CINNAMOMI UNDER DROUGHT CONDITION</td>
<td>Krishna Neupane*, Otis L. Floyd Research Center, College of Agriculture Advisor(s): Fulya Baysal-Gurel</td>
</tr>
<tr>
<td>1:20 PM</td>
<td>A33</td>
<td>DEVELOPMENT OF A COVER CROP SYSTEM FOR MANAGEMENT OF FLATHEADED BORERS IN RED MAPLE PRODUCTION</td>
<td>Axel Gonzalez*, Otis L. Floyd Research Center, College of Agriculture Advisor(s): Karla Addesso, Jason Oliver</td>
</tr>
<tr>
<td>1:40 PM</td>
<td>A34</td>
<td>IDENTIFICATION OF MELON GENOTYPES FOR BREEDING FOR RESISTANCE AGAINST BACTERIA WILT DISEASE</td>
<td>Bimala Acharya*, Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Korsi Dumenyo, Ali Taheri</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>A38</td>
<td>SWEET SORGHUM MICROSPORES' ISOLATION AND WHOLE GENOME AMPLIFICATIONS FOR MOLECULAR MARKERS' SEGREGATION</td>
<td>Dilovan Yahya*, Aaron Felts. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Ahmad Aziz</td>
</tr>
<tr>
<td>2:20 PM</td>
<td>A40</td>
<td>KINETICS CHARACTERIZATION OF SPECIFIC MONOCLONAL ANTIBODIES TARGETING CAMPYLOBACTER FLAGELLIN PROTEIN USING SURFACE PLASMON RESONANCE</td>
<td>Shreya Hamal*. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Fur-Chi Chen</td>
</tr>
<tr>
<td>2:40 PM</td>
<td>A41</td>
<td>EFFECT OF TEMPERATURE ON GERMINATION RATE IN WINTER CANOLA</td>
<td>Taqdeer Gill*. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Jason deKoff</td>
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<tr>
<td>1:00 PM</td>
<td>A49</td>
<td>PREDICTING THE THERMODYNAMIC STABILITY OF PEROVSKITE STRUCTURE THROUGH MACHINE LEARNING</td>
<td>Moyinolouwa Eniola*, Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Landon Onyebueke, Sitaral Aryal, Lizhi Ouyang</td>
</tr>
<tr>
<td>1:20 PM</td>
<td>A54</td>
<td>AB INITIO SIMULATION OF THE ELECTRONIC STRUCTURE PROPERTIES OF 1-BUTYL-3 METHYLIMIDAZOLIUM HEXAFLUOROPHOSPHATE (BMIM PF6) IONIC LIQUID</td>
<td>Oluwatosin Fagbuyi*, Olurotimi Joaquim. Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Landon Onyebueke, Lizhi Ouyang, Sitaral Aryal</td>
</tr>
<tr>
<td>1:40 PM</td>
<td>A55</td>
<td>MODELING/SIMULATION OF FLUID DYNAMICS OF MICROFLUIDS OF DIFFERENT VISCOSITIES IN MICROCHANNELS</td>
<td>William Montgomery*, Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Landon Onyebueke, Lizhi Ouyang, Sitaral Aryal</td>
</tr>
</tbody>
</table>
2:00 PM  A56  AN AB-INITIO STUDY OF SOLID SOLUTIONS CREATED BY COMBINING LEAD-FREE AB03 TYPE PIEZOELECTRIC MATERIALS USING VIENNA AB-INITIO SIMULATION PACKAGE (VASP)
Olurotimi Joaquim*, Oluwatosin Fagbuyi. Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Landon Onyebueke, Lizhi Ouyang, Sitaral Aryal

2:20 PM  A67  OPEN INTELLIGENT UAV PLATFORM
Yves Siakam*, Emmanuel Safari. Electrical and Computer Engineering, College of Engineering Advisor(s): Yi Chung Chen

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<tr>
<td>9:00 AM</td>
<td>A43</td>
<td>ASSESSING THE EFFECT OF WINTER CANOLA VARIETIES ON WINTER CANOPY COVER AND WINTER MORTALITY</td>
<td>Manasarobar Bhattarai*</td>
<td>Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Jason de Koff</td>
</tr>
<tr>
<td>9:20 AM</td>
<td>A46</td>
<td>CARBON NANO-DOTS AS A NOVEL TOOL FOR DELIVERY OF FOREIGN DNA AND MICROBIAL TRANSFORMATION</td>
<td>Anju Pandey*, Asmita Devkota</td>
<td>Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Ali Taheri, Korsi Dumenyo</td>
</tr>
<tr>
<td>9:40 AM</td>
<td>A53</td>
<td>GENOME EDITING TO IMPROVE TOMATO (SOLANUM Lycopersicum) TOLERANCE TO ALUMINUM TOXICITY</td>
<td>Jesse Potts*</td>
<td>Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Suping Zhou, Hui Li, Sonali Roy</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>A57</td>
<td>MASS ISOLATION AND CRYOPRESERVATION OF SWEET SORGHUM MICROSPORES FOR CELL CULTURING</td>
<td>Aron Felts*, Dilovan Yahya</td>
<td>Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Ahmad Aziz</td>
</tr>
<tr>
<td>10:20 AM</td>
<td>A61</td>
<td>SOYBEAN ROOT HAIRS DEVELOPMENT</td>
<td>Asmita Devkota*, Anju Pandey</td>
<td>Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Ali Taheri, Korsi Dumenyo</td>
</tr>
<tr>
<td>10:40 AM</td>
<td>A63</td>
<td>WEED CONTROL IN CUTTING PROPAGATION USING HERBICIDES AND</td>
<td>Isha Poudel*</td>
<td>Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Anthony Witcher</td>
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**GRADUATE - INTERDISCIPLINARY STUDIES**

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<tr>
<td>9:00 AM</td>
<td>A29</td>
<td>AN EXPLORATORY STUDY ON THE PERSPECTIVES OF HIGHER EDUCATION FACULTY REGARDING EFFECTIVE LEADERSHIP STYLES DURING A TIME OF CRISIS</td>
<td>Sandra Bogard*</td>
<td>Education Leadership, College of Education Advisor(s): Terrance McNeil</td>
</tr>
<tr>
<td>9:20 AM</td>
<td>A39</td>
<td>SURVIVING IN THE FITNESS INDUSTRY DURING THE COVID-19: THE APPLICATION OF SPORT ENTREPRENEURSHIP</td>
<td>Michael Black*</td>
<td>Human Performance and Sport Sciences, College of Health Sciences Advisor(s): Mamo Yoseph</td>
</tr>
<tr>
<td>9:40 AM</td>
<td>A68</td>
<td>EMPLOYMENT MISCLASSIFICATION: VARIATIONS IN POLICY AND THE DIFFUSION OF PENALTY LAWS ACROSS U.S. STATES</td>
<td>Robert Marioni*</td>
<td>Public Administration, College of Public Service Advisor(s): Meg Streams</td>
</tr>
<tr>
<td>Time</td>
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<td>Authors</td>
<td>Advisor(s)</td>
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<tr>
<td>10:00 AM</td>
<td>A81</td>
<td>ASSESSING MOTIVATION, PERCEIVED SURVIVAL RISK, AND ENTREPRENEURSHIP KNOWLEDGE: A CASE FROM SMALL AGRICULTURAL ENTREPRENEURS IN TENNESSEE</td>
<td>Michael Crawford*, Reginald Holland. <em>Agricultural and Environmental Sciences</em>, College of Agriculture</td>
<td>Aditya Khanal</td>
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<td>10:40 AM</td>
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<td>11:20 AM</td>
<td>A87</td>
<td>PERCEIVED BUSINESS RISK AND SAVING BEHAVIOR OF SMALL FARM BUSINESS HOUSEHOLDS: AN EMPIRICAL ANALYSIS FROM TENNESSEE</td>
<td>Sudip Adhikari*, Renu Ojha. <em>Agricultural and Environmental Sciences</em>, College of Agriculture</td>
<td>Aditya Khanal</td>
</tr>
<tr>
<td>11:40 AM</td>
<td>A93</td>
<td>FACTORS LIMITING THE MARKETING OF LOCAL FOOD IN TENNESSEE</td>
<td>Blessing Ajumobi*. <em>Agricultural and Environmental Sciences</em>, College of Agriculture Advisor(s): Enefiok Ekanem, Mary Mafuyai</td>
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*Denotes Presenters*
**PRESENTATION SCHEDULES**

**ORAL PRESENTATION - TUESDAY, MARCH 23, 2021**

**GRADUATE - AGRICULTURAL SCIENCES - SESSION 4**

Presentations from 1:00 PM - 3:00 PM

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<tr>
<td>1:00 PM</td>
<td>A69</td>
<td>DEVELOPMENT AND CHARACTERIZATION OF ELECTROSPRAY STARCH / YELLOW MUSTARD MUCILAGE COATINGS FOR THE PRESERVATION OF STRAWBERRIES</td>
<td>Anto Pradeep Raja Charles*. <em>Agricultural and Environmental Sciences</em>, College of Agriculture</td>
<td>Ying Wu, Richard Mu, Fur - Chi Chen, Agnes Kilonzo-Nthenge</td>
</tr>
<tr>
<td>1:40 PM</td>
<td>A75</td>
<td>PREVALENCE AND SPATIAL VARIATION OF ANTIMICROBIAL-RESISTANT COMMENSAL BACTERIA IN POULTRY AND CATTLE FARMS</td>
<td>Maureen Nzomo*. <em>Family and Consumer Sciences</em>, College of Agriculture</td>
<td>Agnes Kilonzo-Nthenge</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>A91</td>
<td>ECONOMIC POTENTIAL FOR BIOMASS SORGHUM AS A BIOENERGY FEEDSTOCK IN SOUTHERN REGION</td>
<td>Kabirat Nasiru*, Steven Kennedy. <em>Agricultural and Environmental Sciences</em>, College of Agriculture</td>
<td>Prabodh Illukpitiya</td>
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<tr>
<td>2:20 PM</td>
<td>A98</td>
<td>THERMAL ASSISTED HIGH-PRESSURE PROCESSING OF THREE MICROBIAL SPORES IN PRESENCE OF NISIN, LYSOZYME, LACTIC ACID, AND CITRICIDAL IN DEIONIZED WATER AND A FOOD VEHICLE</td>
<td>Sadiye Aras*. <em>Cooperative Extension</em>, College of Agriculture</td>
<td>Aliyar Fouladkhah</td>
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**GRADUATE - LIFE SCIENCES**

Presentations from 1:00 PM - 2:40 PM

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<tr>
<td>1:00 PM</td>
<td>A25</td>
<td>INHIBITION OF THE SPECTRAPLAKIN PROTEIN MICROTUBULE ACTIN CROSSLINKING FACTOR 1 SENSITIZES GLIOBLASTOMAS TO RADIATION</td>
<td>Kala Bonner*. <em>Biological Sciences</em>, College of Life Sciences</td>
<td>Quincy Quick</td>
</tr>
<tr>
<td>1:20 PM</td>
<td>A42</td>
<td>COMBINED CURCUMIN AND LUTEOLIN SYNERGISTICALLY SUPPRESSES GROWTH OF COLON CANCER CELLS</td>
<td>Rukayat Aromokeye*. <em>Family and Consumer Sciences</em>, College of Agriculture</td>
<td>Hongwei Si</td>
</tr>
<tr>
<td>1:40 PM</td>
<td>A58</td>
<td>GROWTH EFFECTS OF TUMORIGENIC CELLS EXPOSED TO CONCENTRATIONS OF EXTRACTS OF THE PLANT FRANKINCENSE</td>
<td>Sarah Saleh*, Imani Jordan, Kierstan Tate. <em>Biological Sciences</em>, College of Life Sciences</td>
<td>Elbert Myles</td>
</tr>
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</table>
THE CYTOTOXIC ACTIVITY OF THYMUS VULGARIS EXTRACT ON CANCER CELL LINES, AND ANTIMICROBIAL ACTIVITY STRAINS OF PATHOGENIC
Ashwaq Albeladi*, Alanis Onwu. Biological Sciences, College of Life Sciences Advisor(s): Elbert Myles

TOLL-LIKE RECEPTOR 4 IS REQUIRED FOR TRIBUTYLtin-INDUCED INCREASES IN PRODUCTION OF INTERLEUKIN 1 BETA AND INTERLEUKIN 6 BY HUMAN IMMUNE CELLS
Aliyah Alcala*. Chemistry, College of Life Sciences Advisor(s): Margaret Whalen

*Denotes Presenters
PRESENTATION SCHEDULES

ORAL PRESENTATION - WEDNESDAY, MARCH 24, 2021
UNDERGRADUATE - AGRICULTURAL SCIENCES - SESSION 1

Presentations from 9:00 AM - 11:00 AM

9:00 AM  A104  WINTER HAIR SHEDDING LEVEL AFFECTS COW-CALF PERFORMANCE IN DEXTER COWS
Kaylee Hurt*. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Richard Browning

9:20 AM  A44  PREVALENCE OF ENTEROBACTERIAEAE ON FACULTY AND STUDENTS’ COMPUTER KEYBOARDS
Jordyn White*, Maureen Nzomo, Winne Mukuna. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Agnes Kilonzo-Nthenge

9:40 AM  A60  CYTOTOXIC ACTIVITY OF CHRYSANTHEMUM EXTRACTS ON PROSTATE, LUNG, AND BREAST CANCER CELLS
Krysten Perkins*. Biological Sciences, College of Life Sciences Advisor(s): Elbert Myles

10:00 AM  A66  HOW MUCH DO TENNESSEE FARMERS KNOW ABOUT INTEGRATED PEST MANAGEMENT (IPM) AND BIOLOGICAL CONTROL? FINDINGS FROM A
Christian Smith*. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Aditya Khanal, Thuyeice Taylor

10:20 AM  A72  EFFECT OF DIETARY LYSINE ON PERFORMANCE OF BROILER CHICKENS
Jacob Rawls*, Collins Khwate. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Samuel Nahashon, Thyeice Taylor

10:40 AM  A74  THE PREVALENCE OF ANTIBIOTIC-RESISTANT BACTERIA ON CELL PHONES
Jourdon Huntley*, Maureen Nzomo, Winne Mukuna. Family and Consumer Sciences, College of Agriculture Advisor(s): Agnes Kilonzo-Nthenge

UNDERGRADUATE - ENGINEERING AND COMPUTER SCIENCE

Presentations from 9:00 AM - 10:20 AM

9:00 AM  A108  VIBRATION STRAIN AS A KINEMATIC MEASURE OF THERMAL EFFECTS AND STRUCTURAL HETEROGENEITY IN ATOMISTIC MODELS
Alydia Young*. Civil and Architectural Engineering, College of Engineering Advisor(s): Ranganathan Parthasaraty

9:20 AM  A47  COMPARATIVE ANALYSIS OF THE STRENGTH PROPERTIES OF SPECIMENS PRINTED FROM THREE DIFFERENT TYPES OF 3-D PRINTERS
Madinah Shamsu*, Tesfaye Segni. Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Landon Onyebueke, Lizhi Ouyang, Oluwatosin Fagbuyi, Olurotimi Joaquim

9:40 AM  A48  ANALYSIS OF THE PHYSICAL PROPERTIES OF 3-D PRINTED OBJECTS IN ADDITIVE MANUFACTURING BASED ON PERCENTAGE INFILL DENSITY
Micah Mayfield*, Paul Johnson. Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Landon Onyebueke, Lizhi Ouyang, Oluwatosin Fagbuyi, Olurotimi Joaquim

10:00 AM  A65  MECHANICAL TESTING OF SHORT GLASS FIBERS
Tesfaye Segni*, Derrell Cook. Mechanical and Manufacturing Engineering, College of Engineering Advisor(s): Landon Onyebueke, Lizhi Ouyang, Oluwatosin Fagbuyi, Sitaral Aryal
PREVALENCE OF ENTEROBIOTAEAE ON FACULTY AND STUDENTS' COMPUTER KEYBOARDS
Jordyn White*, Maureen Nzomo, Winnie Mukuna. Family and Consumer Sciences, College of Agriculture Advisor(s): Agnes Kilonzo-Nthenge

GROWTH PERFORMANCE OF BROILER CHICKENS FED DIETS CONTAINING THE PROBIOTIC ESCHERICHIA COLI STRAIN NISSLE 1917
Carla Larrieu*, Angela Settles. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Samuel Nahashon, Thyneice Taylor

EFFECT OF THE PROBIOTIC ESCHERICHIA COLI STRAIN NISSLE ON GROWTH PERFORMANCE OF BROILER CHICKENS
Jada Black*, Angela Settles. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Samuel Nahashon, Thyneice Taylor

EVALUATING THE EFFECTS OF E. COLI STRAIN NISSLE 1917 ON BODY WEIGHT GAIN IN BROILER CHICKENS
Carla Larrieu*, Angela Settles. Agricultural and Environmental Sciences, College of Agriculture Advisor(s): Samuel Nahashon, Thyneice Taylor

BIOFILM FORMATION OF PATHOGENETIC NON-TYPOIDAL SALMONELLA ENTERICA SEROVARS AND NON-PATHOGENIC SALMONELLA LT2 AND THEIR SENSITIVITY TO SODIUM HYPOCHLORITE AND QUATERNARY AMMONIUM COMPOUNDS
Simen Asefaw*, Sadiye Aras. Cooperative Extension, College of Agriculture Advisor(s): Aliyar Fouladkhah

*Denotes Presenters
PRESENTATION SCHEDULES

POSTER PRESENTATIONS - THURSDAY, MARCH 25, 2021

Presentations from 9:00 AM – 12:00 PM

GRADUATE - POSTER SESSION 1

9:00 AM A100 INACTIVATION OF L. MONOCYTOGENES BY UTILIZATION OF NISIN AND ELEVATED HYDROSTATIC PRESSURE
Sabrina Wadood*. Cooperative Extension, College of Agriculture. Advisor(s): Aliyar Fouladkhah

9:15 AM A103 LOCAL FOOD SYSTEM CONTRIBUTIONS TO ECONOMIC DEVELOPMENT
Oluwatooni Ajayi*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Enefiok Ekanem, Mary Mafuyai

9:30 AM A105 INFLUENCE OF VETERINARY ANTIBIOTICS ON THE RETENTION/ RELEASE MECHANISMS OF BORON ON THE CLAY AND OXIDE MINERAL/ WATER INTERFACE
Rose Mumbi*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sudipta Rakshit, Ankit Patras

9:45 AM A21 EFFICACY OF FUNGICIDES AND BIOFUNGICIDES IN CONTROLLING ROOT AND CROWN ROT DISEASE OF WOODY ORNAMENTAL PLANTS CAUSED BY PHYTOPHTHYUM VEXANS
Madhav Parajuli*, Milan Panth. Otis L. Floyd Research Center, College of Agriculture. Advisor(s): Fulya Baysal-Gurel

10:00 AM A26 DEVELOPMENT OF LOOP-MEDIATED ISOThERMAL AMPLIFICATION METHOD FOR DETECTION OF PHYTOPHTHYUM VEXANS IN DIFFERENT SOURCES
Bhawana Ghimire*, Farhat Avin. Otis L. Floyd Research Center, College of Agriculture. Advisor(s): Fulya Baysal-Gurel

10:15 AM A45 MANIPULATION OF MULTIPLE GENES IN GLYCEOLLIN SYNTHESIS PATHWAY IN SOYBEAN USING CRISPR/CAS9
Anju Pandey*, Asmita Devkota. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ali Taheri, Korsi Dumenyo

10:30 AM A62 DEVELOPMENT AND CHARACTERIZATION OF SOYBEAN LINES WITH REDUCED RAFFINOSE SUGARS
Asmita Devkota*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ali Taheri, Korsi Dumenyo

10:45 AM BREAK

11:00 AM A96 SENSITIVITY OF STAPHYLOCOCCUS AUREUS TO MILD ELEVATED HYDROSTATIC PRESSURE AND NISIN IN HEPES BUFFER
Jyothi George*. Cooperative Extension, College of Agriculture. Advisor(s): Aliyar Fouladkhah

11:15 AM A97 AUGMENTING THE EFFICACY OF PRESSURE-BASED PASTEURIZATION OF ESCHERICHIA COLI O157:H7 USING THYMOL AND MILD HEAT IN MEAT HOMOGENATE
Sadiye Aras*. Cooperative Extension, College of Agriculture. Advisor(s): Aliyar Fouladkhah, Shahid Chowdhury

11:30 AM A31 CYBER DECEPTION: A GAME AND PROSPECT THEORETIC APPROACH
Satyaki Nan*. Computer Science, College of Engineering. Advisor(s): Swastik Brahma

11:45 AM A32 REDUNDANCY-BASED MITIGATION OF JAMMING ATTACKS
Satyaki Nan*. Computer Science, College of Engineering. Advisor(s): Swastik Brahma

* Denotes Presenter
**PRESENTATION SCHEDULES**

**POSTER PRESENTATIONS - THURSDAY, MARCH 25, 2021**

*Presentations from 9:00 AM – 12:00 PM*

**GRADUATE - POSTER SESSION 2**

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<tr>
<th>Time</th>
<th>Presentation</th>
<th>Authors</th>
<th>Advisor(s):</th>
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<tr>
<td>9:00 AM</td>
<td>A10 <strong>THE EFFECTIVENESS OF MUSIC THERAPY COMBINED WITH MINDFULNESS MEDITATION TO ALLEVIATE SYMPTOMS OF CLINICAL DEPRESSION IN ADULTS</strong></td>
<td>Elli Hoffman*, Elizabeth Foshee*, Jake Roberson*, Allison LaJeune*, Cara Mitchell*. Occupational Therapy, College of Health Sciences.</td>
<td>Larry Snyder</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>A11 <strong>THE IMPACT OF AQUATIC THERAPY ON FUNCTIONAL MOBILITY AND ACTIVITIES OF DAILY LIVING FOR INDIVIDUALS OVER 50 WHO ARE DIAGNOSED WITH PARKINSON’S DISEASE</strong></td>
<td>Patti Jordan*, Hannah Grant*, Katelyn Atkinson*, Morgan Booth*, Trent Burch*. Occupational Therapy, College of Health Sciences.</td>
<td>Larry Snyder</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>A12 <strong>THE EFFICACY OF VIDEO MODELING ON IMPROVING SOCIAL INTERACTION SKILLS FOR CHILDREN WITH AUTISM, A SYSTEMATIC REVIEW</strong></td>
<td>Tracy Stowers*, Rachael Pomerantz*, Lena Roll*, Katie Underwood*, Eden Ellis*. Occupational Therapy, College of Health Sciences.</td>
<td>Larry Snyder</td>
</tr>
<tr>
<td>9:45 AM</td>
<td>A13 <strong>THE IMPACT OF SOCIAL PARTICIPATION ON QUALITY OF LIFE IN ADULTS WITH CEREBRAL PALSY</strong></td>
<td>Ali Grace Davis*, Leslie Giles*, Kiersten Lewis*, Garret Ortiz*, Shaudre'e Fuller*. Occupational Therapy, College of Health Sciences.</td>
<td>Larry Snyder</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>A14 <strong>A COMPARISON ON THE EFFICACY OF CONSTRAINT INDUCED MOVEMENT THERAPY VersUS MIRROR THERAPY FOR ADULTS WHO HAVE HAD A STROKE</strong></td>
<td>Savannah Crabtree*, Emily Pack*, Rene Roush*, Kayla Starnes*, Darrian Harlang*. Occupational Therapy, College of Health Sciences.</td>
<td>Larry Snyder</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>A18 <strong>THE EFFICACY OF OCCUPATIONAL THERAPY ON INDIVIDUALS RECENTLY SUFFERING A TRAUMATIC BRAIN INJURY RELATIVE TO SOCIAL PARTICIPATION AND QUALITY OF LIFE</strong></td>
<td>India Lamboy*, Grant Bernard*, Ashanti Wade*, Alexandria Woods*, Anthony Joshua*. Occupational Therapy, College of Health Sciences.</td>
<td>Larry Snyder</td>
</tr>
<tr>
<td>10:45 AM</td>
<td><strong>BREAK</strong></td>
<td></td>
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<tr>
<td>11:00 AM</td>
<td>A19 <strong>THE EFFICACY OF ONLINE LEARNING FOR GRADUATE–LEVEL LABORATORY SCIENCE COURSES</strong></td>
<td>Izabelle Peters*, Monica Cathey, Donald Gavin, Kyle St. Hilaire. Physical Therapy, College of Health Sciences.</td>
<td>Richard Clark, Derek Charles</td>
</tr>
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</table>
11:30 AM  A28  APPLICABILITY OF PHYSICAL THERAPY IN THE INPATIENT TREATMENT SETTING FOR PERSONS WITH CHRONIC PAIN AND OPIOID USE DISORDER: A SYSTEMATIC
Advisor(s): Karen Smith

11:45 AM  A30  AN EDUCATIONAL MODEL OF THE FEMALE ATHLETE TRIAD FOR STUDENTS AND PRACTICING PHYSICAL THERAPISTS: A PERSPECTIVE STUDY

* Denotes Presenter
# PRESENTATION SCHEDULES

## POSTER PRESENTATIONS - THURSDAY, MARCH 25, 2021

*Presentations from 1:00 PM – 4:00 PM*

### GRADUATE - POSTER SESSION 3

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<td>1:00 PM</td>
<td>A35</td>
<td>QUANTIFYING VARIABLES THAT INFLUENCE PATIENT COMPLIANCE IN PERFORMANCE OF HOME PROGRAMS OF PHYSICAL THERAPY PATIENTS</td>
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<td>1:15 PM</td>
<td>A36</td>
<td>THE INFLUENCE OF BLACK WOMEN'S HAIR ON EXERCISE PARTICIPATION</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>A5</td>
<td>WOULD INTEGRATING MOTIVATIONAL INTERVIEWING INTO PHYSICAL THERAPY IMPROVE PATIENT OUTCOMES?</td>
</tr>
<tr>
<td>1:45 PM</td>
<td>A52</td>
<td>INCREASING THE DIVERSITY OF ADMISSIONS COMMITTEES TO IMPROVE FUTURE DOCTOR OF PHYSICAL THERAPY (DPT) STUDENT REPRESENTATION</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>A64</td>
<td>COMPARING THE EFFICACY OF HIPPOThERAPY AND HALLIWICK AQUATIC THERAPY ON SITTING POSTURAL CONTROL IN CHILDREN AGES 3-12 WITH CEREBRAL PALSY: SYSTEMATIC REVIEW</td>
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<tr>
<td>2:15 PM</td>
<td>A85</td>
<td>THE EFFECT OF POST ACTIVATION POTENTIATION IN SHOT PUT THROW</td>
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<tr>
<td>2:30 PM</td>
<td>A88</td>
<td>THE RELATIONSHIP BETWEEN STRESS FRACTURES AND POST-MENOPAUSAL RUNNERS</td>
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<td>2:45 PM</td>
<td></td>
<td>BREAK</td>
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<td>3:00 PM</td>
<td>A90</td>
<td>IMPROVING COMMUNITY ADVISORY BOARD EFFECTIVENESS</td>
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<td>3:15 PM</td>
<td>A6</td>
<td>EFFECTS OF TRIBUTYLtin EXPOSURES ON TRANSLATION REGULATORY FACTORS EIF4E, EIF4B, AND S6 IN HUMAN LYMPHOCYTES</td>
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<td>3:30 PM</td>
<td>A7</td>
<td>ANTIMICROBIAL TRICLOSAN (TCS) INCREASES PRODUCTION OF INTERLEUKIN 6 (IL-6) IN HUMAN IMMUNE CELLS</td>
</tr>
<tr>
<td>3:45 PM</td>
<td>A111</td>
<td>PHOSPHORYLATION OF STAT3 BY THE HUMAN SEROTONIN 2C RECEPTOR</td>
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* Denotes Presenter
PRESENTATION SCHEDULES

POSTER PRESENTATIONS - THURSDAY, MARCH 25, 2021

Presentations from 1:00 PM – 3:00 PM

UNDERGRADUATE - POSTER SESSION

1:00 PM A92 ECONOMIC FEASIBILITY OF DEVELOPING MUNG BEAN (VIGNA RADIATA) AS AN ALTERNATIVE CROP FOR SMALL AND MEDIUM Sized FARMERS
Daiva Wilson*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Prabodh Illukpitiya, Fisseha Tegegne

1:15 PM A112 PHOSPHORYLATION OF STAT3 BY SEROTONIN VIA THE HUMAN 5-HT2C
JaQuel Maise*, April Falconer. Chemistry, College of Life Sciences. Advisor(s): Margaret Whalen

1:30 PM A3 ACTIVATION OF TRANSLATION REGULATORY FACTOR EIF4B IN PERIPHERAL BLOOD MONONUCLEAR CELLS BY TRIBUTYLtin
Blake Allen*, Amanda Ruff. Chemistry, College of Life Sciences. Advisor(s): Margaret Whalen

1:45 PM A4 THE EFFECT OF HEXABROMOCYCLODODECANE ON THE PRODUCTION OF INTERLEUKIN-6 BY HUMAN IMMUNE CELLS
JaQuel Maise*, April Falconer. Chemistry, College of Life Sciences. Advisor(s): Margaret Whalen

2:00 PM A77 RESPONSES OF SWITCHGRASS LEAF PHOTOSYNTHESIS TO CO2 CONCENTRATION AND LIGHT UNDER DIFFERENT PRECIPITATION TREATMENTS
Amanee Harris*, Joshua Borlay, Imani Lane, Christina Kieffer. Biological Sciences, College of Life Sciences. Advisor(s): Dafeng Hui

2:15 PM A78 EFFECTS OF NITROGEN FERTILIZATION ON SOIL GREENHOUSE GASES EMISSIONS
Elijah Poston*, Imani Lane, Joshua Borlay, Christina Kieffer. Biological Sciences, College of Life Sciences. Advisor(s): Dafeng Hui

2:30 PM A86 SEASONAL CHANGES OF LEAF PHYSIOLOGY AND RESPONSES TO LIGHT AND CO2 OF MUNG BEAN PLANTS
Jaekedah Christian*, David Hickkok. Biological Sciences, College of Life Sciences. Advisor(s): Dafeng Hui, Mathew Blair, Fisseha Tenegne, Prabodh Illukpitiya

2:45 PM A9 TRICLOSAN INCREASES PRODUCTION OF THE PRO-INFLAMMATORY CYTOKINE INTERLEUKIN-1B IN HUMAN IMMUNE CELLS: THE ROLE OF ERK1/2 PATHWAY
Sahra Gabure*, Wendy Wilburn. Chemistry, College of Life Sciences. Advisor(s): Margaret Whalen

* Denotes Presenter