



25th Annual Celebration of Student Research and Creative Endeavors

Session Schedule

April 21, 2022



Oral Presentations

Oral Session 1 9:00-10:00am, Room 415, Rough Ridge - Plemmons Student Union

Abby Hrabosky, Biology Graduate Student

Faculty Mentor: Shea Tuberty, Biology

Co-Author(s): Carol Babyak, Rebecca Witter, Danielle Koontz, Sherri White-Williamson

Title: A ONE HEALTH APPROACH TO DETERMINING ADVERSE EFFECTS OF CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) FARMING ON SURROUNDING WATER QUALITY IN SAMPSON COUNTY, NC

9:00AM

Noah Arnold, Biology Undergraduate Student

Faculty Mentor: Shea Tuberty, Biology

Co-Author(s): Meredith Artiaco, Dominik Betini, Bryn Merritt, and Andy Hill.

Title: THE IMPACTS OF WASTEWATER POLLUTION ON AN APPALACHIAN HEADWATER STREAM FROM A MEDIUM DENSITY APARTMENT COMPLEX

9:20 AM

Ben Brewer, Biology Graduate Student

Faculty Mentor: Matt Estep, Biology

Title: ASSESSING THE HEALTH OF GRAY'S LILY (LILIUM GRAYI) WITH DEMOGRAPHIC MONITORING

9:40am

Oral Session 2: 9:00-11:00am, Room 417, Beacon Heights - Plemmons Student Union

Madeline Scott, English Graduate Student

Faculty Mentor: Bethany Mannon, English

Title: ONLINE READER COMMUNITIES

9:00am

Katherine Uva, Business Administration Graduate Student

Faculty Mentor: Jill Juris, Recreation Management and Physical Education

Title: OLDER ADULT WELLBEING IN APPALACHIA: A FOCUS ON COMMUNITY RESOURCES

9:20am

Olivia Chapman, Exercise Science Undergraduate Student

Faculty Mentor: Jared Skinner, My Mentor's Department is not listed or I am unsure what is their Department

Co-Author(s): Benji Pruitt

Title: COMPARATIVE ANALYSIS OF PREFRONTAL CORTEX ACTIVITY DURING KINESTHETIC IMAGERY AND OBSERVATIONAL LEARNING

9:40am

Mackenzie Millett, Exercise Science Undergraduate Student

Faculty Mentor: Scott Collier, Health and Exercise Science

Co-Author(s): Denise Martz

Title: HOW MOTIVATION FROM PHYSICAL THERAPISTS AFFECTS PATIENT TREATMENT ADHERENCE

10:00am

Carson Shivers, Chemistry Undergraduate Student

Faculty Mentor: Nicholas Shaw, Chemistry and Fermentation Sciences

Title: COMMERCIALIZING TECHNOLOGY AT ASU: THE BIGINELLI REACTION AND NOVEL PHARMACEUTICALS

10:20am

Sarah Altman, Chemistry Undergraduate Student

Faculty Mentor: Nicholas Shaw, Chemistry and Fermentation Sciences

Title: COMMERCIALIZING TECHNOLOGY AT ASU: THE UGI REACTION AND LIDOCAINE

10:40am

Oral Session 3: 11:00am-12:00pm, Room 415, Rough Ridge - Plemmons Student Union

Anna Brichetto, Biology Graduate Student

Faculty Mentor: Jon Davenport, Biology

Title: GEOGRAPHIC VARIATION IN THE EFFECTS OF HYDROPERIODS ON WOOD FROG (*RANA SYLVATICA*) TADPOLES

11:00am

James Erny, Biology Graduate Student

Faculty Mentor: Michael Opata, Biology

Title: MODERATE MALNUTRITION INCREASES NATURAL KILLER CELLS DURING *PLASMODIUM CHABAUDI* INFECTION

11:20am

Tyler Olender, Biology Graduate Student

Faculty Mentor: Michael Opata, Biology

Co-Author(s): Nicole C. Warnick, Noah J. Murr, Paige J. Childers, Britney P. Nichols

Title: COMBINED EFFECTS OF MODERATE MALNUTRITION AND *PLASMODIUM CHABAUDI* INFECTION ON GUT INTEGRITY AND INNATE IMMUNITY

11:40am

Oral Session 4: 1:00pm-2:20pm, Room 415, Rough Ridge - Plemmons Student Union

Courtney Garneau, Biology Undergraduate Student

Faculty Mentor: Shea Tuberty, Biology

Title: UPTAKE OF MICROPLASTICS BY CADDISFLIES [HYDROPSYCHIDAE] DOWNSTREAM OF WASTEWATER TREATMENT PLANTS IN SOUTHERN APPALACHIAN HEADWATER STREAMS

1:00pm

Safaa Ghalmi, Biology Undergraduate Student

Faculty Mentor: Shea Tuberty, Biology

Title: IMPORTANCE OF BENTHIC MACROINVERTEBRATE IDENTIFICATION AFTER DAM REMOVAL

1:20pm

ROBERT ONJIKO, Biology Graduate Student

Faculty Mentor: Michael Opata, Biology

Title: EFFECTS OF MODERATE MALNUTRITION DURING PREGNANCY ON NEONATAL IMMUNITY TO MALARIA

1:40pm

Madison Suttman, Biology Graduate Student

Faculty Mentor: Shea Tuberty, Biology

Title: MACROINVERTEBRATE IMPACT AND RECOVERY FOLLOWING WEIR DAM REMOVAL

2:00pm

Oral Session 5: 1:00pm-2:20pm, Room 417, Beacon Heights - Plemmons Student Union

Patrick Kelly, Sustainable Technology Graduate Student

Faculty Mentor: Brian Raichle, Sustainable Technology and the Built Environment

Title: A COMPARATIVE ANALYSIS OF PERFORMANCE BETWEEN PV, ST, AND PVT SYSTEMS AND THEIR ABILITY TO PASTEURIZE WATER

1:00pm

Madelynn Alyea, Athletic Training Graduate Student

Faculty Mentor: Jennifer Howard, Health and Exercise Science

Co-Author(s): Grant Yarbrough

Title: TAKING CARE OF KNEE'S: A LEVEL 3 CASE STUDY ON WHOLE PATIENT CARE

1:20pm

Wade Creech, Exercise Science Undergraduate Student

Faculty Mentor: Brooke Towner, Recreation Management and Physical Education

Co-Author(s): Rebecca A. Battista

Title: REASONS AND LOCATIONS FOR PHYSICAL ACTIVITY DURING THE COVID-19 PANDEMIC IN RURAL ADULTS AND FAMILIES

1:40pm

Oral Session 6: 3:00pm-4:00pm, Room 415, Rough Ridge - Plemmons Student Union

Connor Slifer, Biology Undergraduate Student

Faculty Mentor: Shea Tuberty, Biology

Co-Author(s): Jasper Yoke, Katherine Welsh, Travis Blevins, Tyler Grant, Sarah Taylor, Chelsea Blount, George Santucci

Title: PRE-REMEDIATION BIOPHYSIOCHEMICAL ASSESSMENT OF AN URBANIZED HEADWATER STREAM IN BOONE, NC

3:00pm

PJ Coleman, Biology Undergraduate Student

Faculty Mentor: Jennifer Geib, Biology

Co-Author(s): Paul Super, Luke Bennett, Nicole Lowder

Title: SURVEYING SYRPHID FLY DIVERSITY ALONG THE BLUE RIDGE PARKWAY 3:20pm

Nicole Warnick, Biology Graduate Student

Faculty Mentor: Michael Opata, Biology

Co-Author(s): Tyler Olender

Title: EFFECTS OF MORINGA OLEIFERA ON MUCOSAL IMMUNITY DURING MALNUTRITION IN PLASMODIUM CHABAUDI INFECTED MURINE MODELS

3:40pm

Oral Session 7: 3:00pm-4:00pm, Room 417, Beacon Heights - Plemmons Student Union

Audrey Viso, Exercise Science Undergraduate Student

Faculty Mentor: Jared Skinner, Health and Exercise Science

Co-Author(s): Hunnicutt, L., Bramblett, P.N., Collier, S.R.

Title: THE EFFECT OF A SINGLE SESSION OF RESISTANCE TRAINING ON NOCTURNAL BLOOD PRESSURE IN PERSONS WITH PARKINSON'S DISEASE

3:00pm

Benjamin Samberg, Chemistry Undergraduate Student

Faculty Mentor: Andrew Bellemer, Biology

Title: EFFECT OF ENDOCANNABINOIDS ON SEIZURE SEVERITY

3:20pm

Matthew Bonacci, Chemistry Undergraduate Student

Faculty Mentor: Nicholas Shaw, Chemistry and Fermentation Sciences

Title: COMMERCIALIZING TECHNOLOGY AT ASU: SYNTHESIS OF COSMECEUTICALS

3:40pm

Student Poster Competition, 9:00-10:30am, Grandfather Ballroom, Plemmons Student Union

Undergraduate Student Competition

Shamsuddin Ahmed, Geology Undergraduate Student

Faculty Mentor: Andy Heckert, Geological and Environmental Sciences

Co-Author(s): Sage Langston-Stewart, Katharina Pfaff, Kelsey Livingston, Sean Muller, Thomas Monecke

Title: THE OCCURRENCE AND SEQUESTRATION OF GOLD AT THE CROSS MINE IN THE GRAND ISLAND MINING DISTRICT, BOULDER COUNTY, COLORADO"

Poster 1

Surratt Elizabeth, Psychology Undergraduate Student

Faculty Mentor: Shawn Bergman, Psychology

Co-Author(s): Isabella Lopez, Taylor Berry, Riggs Matthews, Timothy Ludwig, Yalcin Achigoz

Title: THE EFFECTS OF LAGGING INDICATORS ON LEADING INDICATORS FOR SAFETY OUTCOMES"

Poster 2

Ethan Harris, Chemistry Undergraduate Student

Faculty Mentor: Michael Reddish, Chemistry and Fermentation Sciences

Co-Author(s): Noah Arnold, Katie May, Lyndsay Snider

Title: ALLOSTERIC INHIBITION OF CYTOCHROME P450 27A1: A POTENTIAL MEANS FOR THE CREATION OF NOVEL CANCER THERAPIES"

Poster 3

Alexander Moore, Biology Undergraduate Student

Faculty Mentor: Zachary Farris, Health and Exercise Science

Title: ANALYSIS OF ANTHROPOGENIC AND LANDSCAPE FACTORS INFLUENCING FOSSA FOSSANA ABUNDANCE ACROSS EASTERN MADAGASCAR"

Poster 4

Adrianna Nelson, Biology Undergraduate Student

Faculty Mentor: Lynn Siefferman, Biology

Title: PERSONALITY INFLUENCES HABITAT PREFERENCE IN FEMALE TREE SWALLOWS (TACHYCINETA BICOLOR)

Poster 5

Camille Powers, Psychology Undergraduate Student

Faculty Mentor: Reagan Breitenstein, Psychology

Co-Author(s): Mary Ballard, PhD

Title: ADVERSE CHILDHOOD EXPERIENCES, ATTACHMENT STYLE, AND EMOTION REGULATION

Poster 6

Isaac Pugh, Geology Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Title: OCCURRENCE AND SIGNIFICANCE OF DREPANOSAURS
(REPTILIA:ARCHOSAUIROMORPHA) FROM AN UPPER TRIASSIC (TRIASSIC:MID-NORIAN)
MICROVERTEBRATE SITE IN EAST-CENTRAL NEW MEXICO"

Poster 7

Jessica Schmid, Exercise Science Undergraduate Student

Faculty Mentor: Kimberly Fasczewski, Health and Exercise Science

Co-Author(s): Bramblett, P.N., Powell, S. M.

Title: DEVELOPMENT OF A PHYSICAL ACTIVITY TRAINING PROGRAM USING BEHAVIORAL
ECONOMICS: THE PACES RACES FOR MS VIRTUAL 5K"

Poster 8

Lindsay Vaughn, Chemistry Undergraduate Student

Faculty Mentor: Brooke Christian, Chemistry and Fermentation Sciences

Title: STABILIZATION OF PROTEINS IN SOLUTION BY A TARDIGRADE CYTOSOLIC ABUNDANT
HEAT SOLUBLE PROTEIN

Poster 9

Withdrawn

Poster 10

Graduate Student Poster Competition

Paige Bramblett, Exercise Science Graduate Student

Faculty Mentor: Kimberly Fasczewski, Health and Exercise Science

Co-Author(s): Powell, S. M.

Title: BEHAVIORAL ECONOMICS IN PHYSICAL ACTIVITY: EXAMINING MOTIVATION BETWEEN A
PERSONAL CONNECTION TO A CAUSE AND PARTICIPATION IN A FUNDRAISING CHARITY
EVENT

Poster 11

Cailey Estridge, Nutrition and Foods Graduate Student

Faculty Mentor: Danielle Nunnery, Nutrition and Health Care Management

Co-Author(s): Dr. Melissa Gutschall and Dr. Laurel Wentz

Title: THE EFFECT OF EXPERIENTIAL LEARNING ON UNDERGRADUATE NUTRITION AND
DIETETICS STUDENTS' SELF-EFFICACY

Poster 12

Hope Gamwell, Exercise Science Graduate Student

Faculty Mentor: Jared Skinner, Health and Exercise Science

Title: EFFECTS OF AGING ON GAIT AND CORRELATING PHYSICAL ACTIVITY LEVELS FOR
ADULTS IN THE HIGH COUNTRY

Poster 13

Alex Gray, Sustainable Technology Graduate Student
Faculty Mentor: Jeremy Ferrell, Sustainable Technology and the Built Environment
Title: CHARACTERIZING EFFECTS OF CHARGED BIOCHAR ON SOIL QUALITY AND PLANT GROWTH IN DEGRADED NORTH CAROLINA HIGH COUNTRY SOILS
Poster 14

Rebecca Hambright, Nutrition Graduate Student
Faculty Mentor: Alisha R. Farris, PhD, RDN, Nutrition and Health Care Management
Co-Author(s): Danielle L. Nunnery, PhD, RDN; Zachary J. Farris, PhD
Title: EXPLORING THE PRACTICES & BEHAVIORS SURROUNDING PREGNANCY IN TRADITIONAL MIDWIVES & COMMUNITY HEALTH WORKERS IN ANDASIBE, MADAGASCAR
Poster 15

Blake Koeval, Exercise Science Graduate Student
Faculty Mentor: Alan Needle, Health and Exercise Science
Co-Author(s): Dr. Jennifer Howard, Dr. Jared Skinner
Title: REACTIVE HOPPING FOR ASSESSMENT OF INJURY RISK IN INDIVIDUALS WITH CHRONIC ANKLE INSTABILITY
Poster 16

Josh Platt, Geography Graduate Student
Faculty Mentor: Derek Martin, Geography and Planning
Co-Author(s): Michael Mayfield, William Armstrong
Title: IMMEDIATE CHANGES IN CHANNEL MORPHOLOGY FOLLOWING A DAM REMOVAL IN SOUTHERN APPALACHIA
Poster 17

Gloria Rhoney, Biology Graduate Student
Faculty Mentor: Maryam Ahmed, Biology
Co-Author(s): Charley Fields, Dr. Darren Seals
Title: ANTI-INFLAMMATORY EFFECTS OF EIGHT WEEK CRANBERRY SUPPLEMENTATION IN OLDER OVERWEIGHT OR OBESE ADULTS
Poster 18

Shraddha Selani, Psychology Graduate Student
Faculty Mentor: Denise Martz, Psychology
Co-Author(s): Lisa A. Curtin, Doris G. Bazzini, Sushmita Chatterjee
Title: SKIN COLOR DISSATISFACTION SCORES PREDICT SKIN BLEACHING BEHAVIORS IN U.S. WOMEN OF COLOR
Poster 19

Luke Wertis, Geography Graduate Student
Faculty Mentor: Maggie Sugg, Geography and Planning
Co-Author(s): Jenifer Runkle

Title: EXAMINING HURRICANE IDA'S IMPACT, IMPLICATIONS OF THE EFFECT OF
CONCURRENT DISASTERS ON MENTAL HEALTH

Poster 20

Poster Presentations

Poster Morning Session 1: 9:00-10:30am - Parkway Ballroom, 4th Floor Plemmons Student Union

Savannah Barbieri, Exercise Science Undergraduate Student

Faculty Mentor: Jonathan Stickford, Health and Exercise Science

Co-Author(s): Abby Stickford

Title: PAIN PERCEPTION DURING COLD PRESSOR TEST IS RELATED TO THE CHANGE IN EXPERIMENTALLY INDUCED DYSPNEA DURING EXERCISE

Poster 21

Crawford Benjamin, Biology Undergraduate Student

Faculty Mentor: Annkatrin Rose, Biology

Title: IDENTIFICATION OF ENDOPHYTES IN HUPERZIA LUCIDULA CAPABLE OF PRODUCING HUPERZINE A

Poster 22

Alyssa Burgess, Chemistry Undergraduate Student

Faculty Mentor: Brooke Christian, Chemistry and Fermentation Sciences

Title: THE STABILIZATION OF ALCOHOL DEHYDROGENASE ACTIVITY BY A TARDIGRADE ABUNDANT HEAT SOLUBLE PROTEIN

Poster 23

Emma Cain, Chemistry Undergraduate Student

Faculty Mentor: Christian Wallen, Chemistry and Fermentation Sciences

Title: METAL-ORGANIC COMPLEXES FOR HYDROGEN SULFIDE COORDINATION

Poster 24

Ellen Carpenter, Nutrition Graduate Student

Faculty Mentor: Paul Moore, Nutrition and Health Care Management

Co-Author(s): Melissa Gutschall, PhD, RDN; Kyle Thompson, DCN, RDN, LDN; Alyssa Clement, MS, RDN, LDN

Title: QUALITY AND ACCURACY OF IDDSI DIET AT A REGIONAL HOSPITAL IN WESTERN NORTH CAROLINA

Poster 25

Krista Clarke, Nutrition Graduate Student

Faculty Mentor: Alisha Farris, Nutrition and Health Care Management

Co-Author(s): Danielle Nunnery PhD, RDN, Manan Roy PhD

Title: EXPLORING CORRELATIONS OF DISORDERED EATING, ADVERSE CHILDHOOD EXPERIENCES, AND WEIGHT BIAS IN COLLEGE NUTRITION STUDENTS

Poster 26

Abby Cope, Public Health Undergraduate Student

Faculty Mentor: Jennifer Schroeder Tyson, Health and Exercise Science

Co-Author(s): Amber Welborn, Sarah Martin, Hailey Phillips

Title: UTILIZING MICROLEARNING FOR MATERNAL, CHILD AND FAMILY HEALTH KNOWLEDGE ACQUISITION: MCFH|APPALACHIAN

Poster 27

Darcy Dean, Nutrition Graduate Student

Faculty Mentor: Laura McArthur, Nutrition and Health Care Management

Co-Author(s): Morgan Adkission, Melissa D. Gutschall, PhD, RD, LDN, Alisha Farris, PhD,

Title: FOOD INSECURITY STATUS AND CORRELATES AMONG MARRIED STUDENTS AT APPALACHIAN STATE UNIVERSITY BEFORE AND DURING THE 2020 COVID-19 PANDEMIC

Poster 28

Alexandra DeTurco, Biology Undergraduate Student

Faculty Mentor: Matt Estep, Biology

Co-Author(s): Jennifer Rhode Ward, Matt C. Estep

Title: CROSS AMPLIFICATION OF GENETIC MARKERS FROM ECONOMICALLY SIGNIFICANT ALLIUM SPECIES FOR USE IN GENETIC DIVERSITY STUDIES OF THE NATIVE ONION, ALLIUM TRICOCCUM.

Poster 29

Withdrawn

Poster 30

Morgan Gaglianese-Woody, Biology Graduate Student

Faculty Mentor: Matt Estep, Biology

Co-Author(s): Matt C. Estep

Title: THE EFFECT OF A PAST AUGMENTATION ON THE FITNESS OF THE FEDERALLY ENDANGERED SOUTHERN APPALACHIAN ENDEMIC GEUM RADIATUM MICHX.

Poster 31

Austin Gooch, Exercise Science Graduate Student

Faculty Mentor: Jonathon Stickford, Health and Exercise Science

Co-Author(s): Marc Augenreich, Aaron McMichael, Jayvaughn Oliver

Title: ACUTE ELECTRONIC CIGARETTE USE DOES NOT ALTER INDICATORS OF THORACIC GAS COMPRESSION

Poster 32

Poster Morning Session 2: 10:40am-12:00pm - Parkway Ballroom

Grace Kropelin, Biology Undergraduate Student

Faculty Mentor: Clare Scott Chialvo, Biology

Title: EXAMINATION OF FEEDING BEHAVIOR IN THE POLKA-DOTTED FRUIT FLY (DROSOPHILA GUTTIFERA).

Poster 40

Claire Martin, Biology Graduate Student

Faculty Mentor: Howard Neufeld, Biology

Title: ECOPHYSIOLOGICAL EXPLANATIONS FOR SPATIAL AND TEMPORAL VARIATIONS IN AUTUMNAL COLORATION WITHIN THE CANOPIES OF ORNAMENTAL RED MAPLE (ACER RUBRUM 'ARMSTRONG) AND FREEMAN MAPLE (ACER X FREEMANII) TREES

Poster 41

Tyler Perryman, Biology Undergraduate Student

Faculty Mentor: Rachel Bleich, Biology

Co-Author(s): Chequita Brooks

Title: BACTERIOPHAGE PRESENCE IN MICROBIOTA OF ACID MINE DRAINAGE

Poster 42

Rosemary Ronca, Biology Graduate Student

Faculty Mentor: Jon Davenport, Biology

Title: IDENTIFYING THE HABITAT PARAMETERS AND PREDICTORS OF THE SOUTHERN APPALACHIAN MOUNTAIN ENDEMIC, PLETHODON WELLERI

Poster 43

Sophia Ryan, Geography Graduate Student

Faculty Mentor: Maggie Sugg, Geography and Planning

Co-Author(s): Jennifer Runkle

Title: GREENSPACE AND MENTAL HEALTH RELATIONSHIPS IN RURAL AND URBAN NEIGHBORHOODS OF NORTH CAROLINA

Poster 44

Lee Sturgis, Biology Graduate Student

Faculty Mentor: Andrew Bellemer, Biology

Title: THE ROLE OF NOTCH IN DROSOPHILA NOCICEPTOR MORPHOLOGY AND FUNCTION

Poster 45

Rachel Szeghy, Exercise Science Graduate Student

Faculty Mentor: Jonathon Stickford, Health and Exercise Science

Co-Author(s): Nina L. Stute, Stephen M. Ratchford, Abigail S.L. Stickford

Title: COLD PRESSOR TEST BLUNTS REACTIVE HYPEREMIA DURING PASSIVE LIMB MOVEMENT

Poster 46

Skye-Anne Tschoepe, Environmental Science Undergraduate Student
Faculty Mentor: William Anderson, Geological and Environmental Sciences
Title: CHLORIDE TRAVEL THROUGH A BIORETENTION WETLAND SYSTEM IN BOONE, NC: DATA PROCESSING METHODS
Poster 47

Lily Vowels, Geology Undergraduate Student
Faculty Mentor: William Armstrong, Geological and Environmental Sciences
Co-Author(s): Brianna Rick, Irina Overeem, Dan McGrath
Title: QUANTIFYING CHANGES IN SUSPENDED SEDIMENT CONCENTRATION IN GLACIER-FED STREAMS USING LARGE SCALE REMOTE SENSING
Poster 48

Tatum Weishaar, Chemistry Undergraduate Student
Faculty Mentor: Megan Culpepper, Chemistry and Fermentation Sciences
Title: ISOLATION AND CHARACTERIZATION OF A PUTATIVE DIMETHYL SULFIDE (DMS) MONOOXYGENASE IN ARTHROBACTER GLOBIFORMIS
Poster 49

Elyssa Winterton, Biology Graduate Student
Faculty Mentor: Jon Davenport, Biology
Title: INVESTIGATING REGIONAL OCCUPANCY OF SMALL TERRESTRIAL SALAMANDERS (GENUS PLETHODON) IN NORTHWESTERN NORTH CAROLINA AND NORTHEASTERN TENNESSEE DURING SUMMER MONTHS
Poster 50

Summer Gee, Technology Graduate Student
Faculty Mentor: Jeremy Ferrell, Sustainable Technology and the Built Environment
Title: CHARACTERIZING THE EFFECTS OF VENTILATION FANS, DOUBLE GLAZING, AN INSULATED GROUND SKIRT AND AN AUTOMATED SIDEWALL ROLL UP SYSTEM ON HIGH TUNNEL GREENHOUSE MICROCLIMATE IN THE HIGH COUNTRY
Poster 51

Jordan Greene, Computer Science Graduate Student
Faculty Mentor: James Sherman, Physics and Astronomy
Title: INTEGRATION OF NASA MICRO-PULSED LIDAR NETWORK DATA PRODUCTS INTO THE WORLD-CLASS NASA AND NOAA AEROSOL DATASETS AT APPALACHIAN STATE UNIVERSITY
Poster 52

Elizabeth Haslam, Biology Undergraduate Student
Faculty Mentor: Nicholas Shaw, Chemistry and Fermentation Sciences
Title: COMMERCIALIZING TECHNOLOGY AT ASU: PHARMACEUTICAL APPLICATIONS
Poster 53

Katie Haven, Geology Undergraduate Student
Faculty Mentor: William Anderson, Geological and Environmental Sciences
Co-Author(s): Tyler Bland
Title: GROUNDWATER RESOURCES OF WATAUGA COUNTY
Poster 54

Leigha Henson, Biology Graduate Student
Faculty Mentor: Howard Neufeld, Biology
Title: WARMING AND PRECIPITATION EFFECTS ON SEVERAL COMMON MOSS SPECIES OF THE SOUTHERN APPALACHIAN MOUNTAINS
Poster 55

Morgan Hern, Chemistry Undergraduate Student
Faculty Mentor: Christian Wallen, Chemistry and Fermentation Sciences
Title: METAL COMPLEXES OF ASYMMETRIC SULFONAMIDATE LIGAND FOR HYDROGEN SULFIDE HARVEST
Poster 56

Randall Karcher, Geology Undergraduate Student
Faculty Mentor: Ellen Cowan, Geological and Environmental Sciences
Co-Author(s): Stefanie Brachfeld, Zhen Wang, Avner Vengosh
Title: MAGNETIC ANALYSIS AS A NOVEL METHOD FOR COAL ASH DETECTION IN RESERVOIR SEDIMENT
Poster 57

Morgan Keitt, Public Health Undergraduate Student
Faculty Mentor: Christopher Seitz, Health and Exercise Science
Co-Author(s): Lydia Waddel , Holden Cobb
Title: COUNTRY ADHERENCE TO WHO FCTC GUIDELINES FROM 2007 TO 2018 REGARDING GRAPHIC WARNINGS AT THE TOP OF CIGARETTE PACKS
Poster 58

Ron Kitchings, Sustainable Technology Undergraduate Student
Faculty Mentor: Jeremy Ferrell, Sustainable Technology and the Built Environment
Title: AN ENERGY PERFORMANCE ANALYSIS OF A SMALL-SCALE ANAEROBIC DIGESTER IN THE LATE FALL
Poster 59

Maura McClain, Nutrition Graduate Student

Faculty Mentor: Danielle Nunnery, Nutrition and Health Care Management

Co-Author(s): Nicole Arnold PhD; Manan Roy PhD; Alisha Farris PhD, RD; Amber Welborn PhD, RN; Lauren Sastre PhD, RD, LDN; Hope Lima PhD, RD, LDN

Title: MEDICAL PROVIDER PERCEPTIONS OF NUTRITION EDUCATION AND REFERRAL TO REGISTERED DIETITIANS FOR PREGNANT CLIENTS

Poster 60

Karen Meza, Exercise Science Undergraduate Student

Faculty Mentor: Christopher Seitz, Health and Exercise Science

Co-Author(s): Carolina Avila-Tovar , Julianna Rodriguez-Cruz

Title: PATIENT COMPLAINTS ABOUT FACE MASK COMPLIANCE: A CONTENT ANALYSIS FROM THREE CLINICIAN REVIEW WEBSITES

Poster 61

Lindsie Miles, Nutrition Graduate Student

Faculty Mentor: Danielle Nunnery, Nutrition and Health Care Management

Co-Author(s): Taylin Spurlock; Nadia Livesay; Macy Henry; Maggie Sugg; Alisha Farris; Manan Roy

Title: SPATIAL ANALYSIS OF PERINATAL FOOD ASSISTANCE RESOURCES IN RELATION TO FOOD DESERTS IN NORTH CAROLINA

Poster 62

William Norris, Exercise Science Undergraduate Student

Faculty Mentor: Jonathon Stickford, Health and Exercise Science

Co-Author(s): Marc Augenreich, Janet Cope, Cynthia Bennett, and Stephen Ratchford

Title: PULMONARY FUNCTION FOLLOWING ACUTE FORMALDEHYDE EXPOSURE IN YOUNG ADULTS

Poster 63

Matthew Phillips, Engineering Physics Graduate Student

Faculty Mentor: Chris Thaxton, Physics and Astronomy

Co-Author(s): Joshua McNeill, Tomas Romero

Title: A REAL-TIME SEAFLOOR OBJECT SCOUR AND BURIAL MODEL: REVISING THE DMBP

Poster 64

Megan Pike, Chemistry Undergraduate Student

Faculty Mentor: Carol Babyak, Chemistry and Fermentation Sciences

Co-Author(s): Latetia Hoyle

Title: METAL SPECIATION AND COMPLEXING CAPACITY IN THE SOUTH FORK NEW RIVER ABOVE AND BELOW THE WASTEWATER TREATMENT PLANT USING ELECTROCHEMICAL AND SPECTROSCOPIC METHODS

Poster 65

Carter Smith, Environmental Science Undergraduate Student
Faculty Mentor: Cole Edwards, Geological and Environmental Sciences
Co-Author(s): Brianna Hibner
Title: USING PAIRED CARBON AND SULFUR ISOTOPES FROM CARBONATE ROCKS TO
CONSTRAIN THE TIMING OF ANOXIA DURING THE LATE DEVONIAN IN THE GREAT BASIN
REGION, USA: IMPLICATIONS FOR CHEMOSTRATIGRAPHIC CORRELATIONS
Poster 66

Carly Bauer, Environmental Science Undergraduate Student
Faculty Mentor: Chris Thaxton, Physics and Astronomy
Title: CORRELATING THE INTENSITY AND DYNAMICS OF LANDFALLING HURRICANES WITH
TIDES
Poster 67

Madison Belk, Psychology Undergraduate Student
Faculty Mentor: Reagan Breitenstein, Psychology
Title: CORRELATIONS BETWEEN CORTISOL AND MULTIPLE INDICATORS OF EXECUTIVE
FUNCTIONING IN CHILDREN
Poster 68

Tyler Bland, Geology Undergraduate Student
Faculty Mentor: William Anderson, Geological and Environmental Sciences
Title: SEA-LEVEL RISE IMPACTS ON BARRIER-ISLAND AQUIFER MIXING-ZONE MORPHOLOGY
Poster 69

Kaylor Mead, Interior Design Undergraduate Student
Faculty Mentor: Chelsea Helms, Applied Design
Co-Author(s): Esmerelda Benitez-Ibarra, Emily Blackmon, Makenzie Garbert, Hugo Hernandez, Beth
Hicks, Emily Johnson, Kim Julison, Shea Marlowe, Cate Mehrer, Grace Neve, Lacodia Reid-Jackson,
Daniel Scruggs, Lily Smoot, Rachel Walker, Tahj Walker
Title: RE-ENVISIONING SMALL TOWN POLICE ARCHITECTURE AND DESIGN SOLUTIONS TO
FOSTER COMMUNITY RELATIONS, SUPPORT MENTAL HEALTH, AND INCREASE WORKPLACE
PRODUCTIVITY.
Poster 70

Erik Rangel Silva, Biology Graduate Student
Faculty Mentor: Andrew Bellemer, Biology
Title: THE ROLE OF RNA-BINDING PROTEINS IN NOCICEPTION AND NOCICEPTOR-SPECIFIC
CAS9 GENE EDITING IN A DROSOPHILA MELANOGASTER MODEL.
Poster 71

Matthew Fiedler, Exercise Science Graduate Student
Faculty Mentor: Herman van Werkhoven, Health and Exercise Science
Co-Author(s): Travis Triplett, PhD. Keane Hamilton, MS. Alan Needle, PhD.
Title: THE EFFECT OF DIFFERENT WEIGHT PLATES ON THE BIOMECHANICS OF THE BENCH PRESS
Poster 72

Poster Afternoon Session 1: 1:00pm-2:40pm - Parkway Ballroom

Grace Anderson, Nutrition Graduate Student
Faculty Mentor: Brook Harmon, Nutrition and Health Care Management
Co-Author(s): Jamie B. Griffin, PhD, RDN, LDN and John Arrowood, MS, RDN, LDN
Title: ASSOCIATIONS BETWEEN MINDFULNESS AND PERCEIVED STRESS AMONG A COLLEGE CAMPUS SAMPLE
Poster 75

Taylor Beck, Nutrition Undergraduate Student
Faculty Mentor: Laurel Wentz, Nutrition and Health Care Management
Title: DIETARY PRACTICES OF COLLEGIATE WRESTLERS ACROSS THE SEASON
Poster 76

Olivia Carman, Nutrition Graduate Student
Faculty Mentor: Melissa Gutschall, Nutrition and Health Care Management
Co-Author(s): Jamie Griffin, PhD, RD; Danielle Nunnery, PhD, RD
Title: IMPACT OF A VIRTUAL EDUCATIONAL PRESENTATION ON FOOD ACCEPTABILITY IN CHILDREN WITH AUTISM SPECTRUM DISORDER IN RURAL WESTERN NORTH CAROLINA
Poster 77

Seamus Aparicio, Biology Undergraduate Student
Faculty Mentor: Clare Scott Chialvo, Biology
Co-Author(s): Pablo Chialvo
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Co-Author(s): Killian Wustrow, Nelson Vinueza, Sui Xinyi, Morgan Demmler, Emiel DenHartog, Scott Collier

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Faculty Mentor: Jared Skinner, Health and Exercise Science

Co-Author(s): Lizzie Gamwell, Alexis King, and Dr. Kim McCullough

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Faculty Mentor: Maggie Sugg, Geography and Planning

Co-Author(s): Tyler Minor, Jennifer Runkle

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Co-Author(s): Isaac Pugh

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Faculty Mentor: Laurel Wentz, Nutrition and Health Care Management

Co-Author(s): Sarah Radman, Amy Perkinson, Alisha Farris PhD, RDN, Zachary Farris PhD

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Lexi Chimera, Nutrition Graduate Student

Faculty Mentor: Melissa Gutschall, Nutrition and Health Care Management

Co-Author(s): Alisha Farris, Laurel Wentz, Tara Harman, Aston Dommel, Kelsey Rushing, Lee Stowers, Christian Behrens Jr

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Jackson Dellana, Nutrition Graduate Student

Faculty Mentor: Melissa Gutschall, Nutrition and Health Care Management

Co-Author(s): Lexi Chimera¹, Alisha Farris¹, Danielle Nunnery¹, Tara Harman², Aston Dommel², Kelsey Rushing², Lee Stowers², Christian Behrens Jr¹

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Title: THE IMPACT OF SEXUAL ORIENTATION ON FOOD INSECURITY AMONG DIVISION 1 STUDENT ATHLETES

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Sydney Fischer, Nutrition Graduate Student

Faculty Mentor: Kyle Thompson, Nutrition and Health Care Management

Co-Author(s): Melissa Gutschall, Margaret Barth, Amanda Hege

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Bryn Mohn, Nutrition Graduate Student

Faculty Mentor: Melissa Gutschall, Nutrition and Health Care Management

Co-Author(s): Danielle Nunnery PhD, RD and Sydeena Isaacs PhD, RD

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Faculty Mentor: Sandi Lane, Nutrition and Health Care Management

Co-Author(s): Dr. Paul Moore

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Meghan Dempsey, Nutrition Graduate Student

Faculty Mentor: Laurel Wentz, Nutrition and Health Care Management

Co-Author(s): Michelle Rockwell, PhD, RD, CSSD

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Faculty Mentor: Kevin Shirley, Mathematical Sciences
Co-Author(s): Vicky Klima <klimavw@appstate.edu>
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Co-Author(s): Barbieri, S.J.*, Augenreich, M.A.
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Co-Author(s): K. George
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Co-Author(s): Keith Seramur, , Zhen Wang, Avner Vengosh
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Co-Author(s): Sophia Emmer, Danielle Dangelo
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Co-Author(s): Travis Lontis and Nick Khorozov
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Faculty Mentor: Shawn Bergman, Psychology
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Faculty Mentor: Cara Fiore, Biology

Co-Author(s): Hailey Ward, Karen Perez, Preston Charles, Cara Fiore

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Wesley J. Smith, Exercise Science Graduate Student

Faculty Mentor: Kimberly Fasczewski, Health and Exercise Science

Co-Author(s): Bramblett, P.N., Gamwell, L.E., Schmid, J.H., Skinner, J.W.

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Dristen Trate, Exercise Science Graduate Student

Faculty Mentor: Caroline Smith, Health and Exercise Science

Co-Author(s): Killian D. Wustrow, Nelson R. Vinueza, Xinyi Sui, Morgan Demmler, Emiel A. DenHartog, Scott R. Collier

Title: TIME COURSE OF DERMAL ANTHRACENE ABSORPTION UTILIZING INTRADERMAL MICRODIALYSIS

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Thank you for engaging in research and creative endeavors at Appalachian State University!