



26th Annual Celebration of Student Research and Creative Endeavors

Session Schedule

April 19, 2023



Event Information

Doors Open at 8:30am. All presentations occur on the 4th Floor Plemmons Student Union.

There is a short break between 12:00-1:00pm

Poster Competition Awards are announced at 12:45pm.

Poster Sessions include 2 sessions in the morning and 2 sessions in the afternoon.

Morning Session 1 - 9:00am -10:30am. This session also includes the Poster Competition where Undergraduate and Graduate students were selected to participate based on reviews of their abstracts. They will present their poster to a panel of judges and the top 3 in each category will be selected.

Morning Session 2 - 10:40am -12:00pm

Afternoon Session 1 - 1:00pm - 2:30pm

Afternoon Session 2 - 2:40pm - 4:00pm

Poster boards are 4 feet by 4 feet. Numbers are assigned to posters - please look for your poster number upon arrival. Please arrive at least 10 minutes before your presentation to place your poster on the assigned board.

Oral Sessions include 2 sessions in the morning and 3 sessions in the afternoon.

Oral Session 1 - 10:00am - 11:00am

Oral Session 2 - 11:00am - 12:00pm

Oral Session 3 - 1:00pm - 2:20pm

Oral Session 4 - 2:40pm - 4:00pm

Oral Session 5 - 2:40pm - 3:40pm

Oral presentations are 20 minutes in length allowing for at least 5 minutes for questions. Please arrive at least 10 minutes before your scheduled session in order to upload your presentation. Please stay for the entire session.

Annual Poster Competition - 9:00am-10:30am - Parkway Ballroom

Graduate Student Poster Competition Finalists	
Jonathan Farrior, Nutrition Graduate Student Faculty Mentor: Danielle Nunnery, Nutrition and Health Care Management Co-Author(s): Manan Roy PhD; Maggie Sugg PhD Title: USING GIS SERVICE AREA ANALYSES TO IDENTIFY CHARACTERISTICS OF WIC INACCESSIBLE REGIONS	PC 1
Hope E Gamwell Muscarello, Exercise Science Graduate Student Faculty Mentor: Jared Skinner, Public Health and Exercise Science Co-Author(s): Olivia Chapman, Jaden Tuitt Title: ENHANCING LOCOMOTOR LEARNING WITH MOTOR IMAGERY AND TRANSCRANIAL DIRECT CURRENT STIMULATION	PC 2
Leigha Henson, Biology Graduate Student Faculty Mentor: Howard Neufeld, Biology Co-Author(s): N/A Title: PHOTOSYNTHETIC MEASUREMENTS OF SEVERAL COMMON MOSS SPECIES OF THE SOUTHERN APPALACHIAN MOUNTAINS	PC 3
Abigail Hockett, Biology Graduate Student Faculty Mentor: Mary Kinkel, Biology Co-Author(s): Cort Bouldin Title: THE EFFECTS OF ANEUPLOIDY DURING EMBRYONIC DEVELOPMENT	PC 4
Robert Onjiko, Biology Graduate Student Faculty Mentor: Maryam Ahmed, Biology Co-Author(s): N/A Title: EFFECTS OF MODERATE MALNUTRITION DURING PREGNANCY ON NEONATAL IMMUNITY TO MALARIA	PC 5
Erik Rangel Silva, Biology Graduate Student Faculty Mentor: Andrew Bellemer, Biology Co-Author(s): N/A Title: THE ROLE OF RNA BINDING PROTEINS AND CRISPR/CAS9 AS A GENE EDITING TOOL IN DROSOPHILA NOCICEPTION	PC 6
Bryan Taylor, Exercise Science Graduate Student Faculty Mentor: Jared Skinner, Public Health and Exercise Science Co-Author(s): Alan Needle, needlear@appstate.edu Title: COMBINED EFFECTS OF TRANSCRANIAL DIRECT-CURRENT STIMULATION AND STATIC STRETCHING ON HIP RANGE OF MOTION	PC 7

<p>Sarah Ulrich, Geography Graduate Student Faculty Mentor: Margaret Sugg, Geography and Planning Co-Author(s): N/A Title: SPATIAL ANALYSIS OF MATERNAL MENTAL HEALTH CONDITIONS IN NORTH CAROLINA: A RETROSPECTIVE BIRTH COHORT STUDY</p>	PC 8
<p>Cameron Welsh, Physics Graduate Student Faculty Mentor: Zach Russell, Physics and Astronomy Co-Author(s): Dr. Sayan Chandra Title: INEXPENSIVE SURFACE PLASMON RESONANCE SETUP FOR MATERIAL ANALYSIS</p>	PC 9
<p>Sophia Ryan, Geography Graduate Student Faculty Mentor: Margaret Sugg, Geography and Planning Co-Author(s): Jennifer D Runkle, Bhuwan Thapa Title: GREENSPACE AND ADOLESCENT MENTAL HEALTH: INVESTIGATION OF SOCIO-DEMOGRAPHIC EFFECTS MODIFIERS AND RECOMMENDATIONS FOR COMMUNITY-LEVEL MENTAL HEALTH INTERVENTIONS</p>	PC 10
<p>Undergraduate Student Poster Competition Finalists</p>	
<p>Shamsuddin Ahmed, Geology Undergraduate Student Faculty Mentor: Scott Marshall, Geological and Environmental Sciences Co-Author(s): R Shane McGary Title: USING ELECTRICAL RESISTIVITY IMAGING TO DETECT SUBSURFACE VOID SPACES AND GROUNDWATER FLOW LINKED TO CAVE FORMATION IN THE WATER SINKS AREA, HIGHLAND COUNTY, WEST-CENTRAL VIRGINIA, USA</p>	PC 11
<p>Noah Caldwell, Geology Undergraduate Student Faculty Mentor: William Armstrong, Geological and Environmental Sciences Co-Author(s): n/a Title: RATES AND POTENTIAL CONTROLS ON THE RETREAT OF ALASKA'S LAKE-TERMINATING GLACIERS</p>	PC 12
<p>Tori Elliott, Psychology Undergraduate Student Faculty Mentor: Denise Martz, Psychology Co-Author(s): Dr. Doris Bazzini, Shraddha Selani Title: SHE WEARS IT HOW? HAIR TEXTURE DISSATISFACTION RELATES TO RACISM AND COLORISM IN BLACK WOMEN</p>	PC 13

<p>Dy'Quan Kearney, Biology Undergraduate Student</p> <p>Faculty Mentor: Andrew Bellemer, Biology</p> <p>Co-Author(s): N/A</p> <p>Title: IDENTIFYING THE ROLE OF INSULIN SIGNALING IN THERMAL NOCICEPTION</p>	PC 14
<p>Christopher Lucero, Geography Undergraduate Student</p> <p>Faculty Mentor: Maggie Sugg, Geography and Planning</p> <p>Co-Author(s): Sophie Ryan</p> <p>Title: DISPARITIES IN AFRICAN AMERICAN MENTAL HEALTH DURING THE COVID PANDEMIC: A SPATIAL CLUSTERING ANALYSIS OF NORTH CAROLINA, 2016-2021</p>	PC 15
<p>Joshua McNeill, Physics Undergraduate Student</p> <p>Faculty Mentor: Christopher Thaxton, Physics and Astronomy</p> <p>Co-Author(s): Tomas Romero, Nick Mencis, Travis Taylor, Brynn Welch</p> <p>Title: DEVELOPMENT OF A REGIONAL SEAFLOOR OBJECT SCOUR AND BURIAL MODEL IN SUPPORT OF U.S. NAVAL OPERATIONS</p>	PC 16
<p>Alex Moore, Biology Undergraduate Student</p> <p>Faculty Mentor: Baker Perry, Geography and Planning</p> <p>Co-Author(s): Tom Matthews, Sandro Arias, Maxwell Rado</p> <p>Title: RECORD SOLAR IRRADIANCE OBSERVED IN THE TROPICAL ANDES OF PERU</p>	PC 17
<p>Parker Reid, Economics Undergraduate Student</p> <p>Faculty Mentor: David Dickinson, Economics</p> <p>Co-Author(s): N/A</p> <p>Title: HOW ONLINE GAMBLING IMPACTS PROBABILITY JUDGEMENTS IN A BAYESIAN TASK ENVIRONMENT</p>	PC 18
<p>Elliot Sheehan, History/Social Sciences Education Undergraduate Student</p> <p>Faculty Mentor: Michael Behrent, History</p> <p>Co-Author(s): n/a</p> <p>Title: URBAN RENEWAL AND THE INTERSTATE: LOSING CHARLESTON'S TRIANGLE DISTRICT, 1956-1977</p>	PC 19
<p>Henry Taylor, Biology Undergraduate Student</p> <p>Faculty Mentor: Brooke Christian, Chemistry and Fermentation Sciences</p> <p>Co-Author(s): N/A</p> <p>Title: STABILIZATION OF MONOCLONAL ANTIBODIES USING CYTOSOLIC HEAT SOLUBLE PROTEIN D</p>	PC 20

Morning Session Poster Presentations 9:00-10:30am Parkway Ballroom

Olivia Chapman, Exercise Science Undergraduate Student

Faculty Mentor: Jared Skinner, Public Health and Exercise Science

Co-Author(s): Lizzie Gamwell

Title: IMPORTANCE OF THE DYNAMIC WARMUP FOR THE EQUESTRIAN ATHLETE

Poster 21

Noah Kaufmann, Exercise Science Graduate Student

Faculty Mentor: Andrew Shanely, Public Health and Exercise Science

Co-Author(s): Dara E. Kodack, K. Bryan Taylor, Emily C. Bauer, Favian Morales, Camryn Olsen, N. Travis Triplett, Jeffery M. McBride

Title: EXAMINING THE RELATIONSHIP BETWEEN MEASURES OF SKELETAL MUSCLE STRENGTH AND POWER AND SKELETAL MUSCLE SIZE AND DENSITY

Poster 22

Javier Morales Dozal, Exercise Science Graduate Student

Faculty Mentor: Marco Meucci, Public Health and Exercise Science

Co-Author(s): Scott R. Collier, Robert J. Kowalsky

Title: DIFFERENCES IN BLOOD PRESSURE AND PULSE WAVE ANALYSIS BETWEEN SEATED AND SUPINE IN YOUNG ADULTS

Poster 23

Maya Ristanovic, Exercise Science Graduate Student

Faculty Mentor: Kym Fasczewski, Public Health and Exercise Science

Co-Author(s): N/A

Title: EFFECT ON PHYSICAL ACTIVITY BEHAVIOR IN INDIVIDUALS PARTICIPATING IN A VIRTUAL 5K PROGRAM TO BENEFIT A SELF-SELECTED CAUSE

Poster 24

Andrey Sankó, Exercise Science Graduate Student

Faculty Mentor: Kym Fasczewski, Public Health and Exercise Science

Co-Author(s): Sarah Powel

Title: INCLUSION OF SOCIAL JUSTICE IN KINESIOLOGY / EXERCISE SCIENCE CURRICULUM

Poster 25

Amber Dozier, Nutrition Graduate Student

Faculty Mentor: Alisha Farris, Nutrition and Health Care Management

Co-Author(s): Melissa Gutschal, Adam Hege

Title: ASSESSING THE UTILIZATION OF AN ON-CAMPUS SATELLITE PANTRY

Poster 26

Sidneigh O'Leary, Nutrition Graduate Student
Faculty Mentor: Alisha Farris, Nutrition and Health Care Management
Co-Author(s): Danielle Nunnery PhD RDN and Laurel Wentz PhD RD
Title: THE BENEFITS OF AN INTRO TO NUTRITION AND HEALTH COURSE ON COLLEGE STUDENTS IN RURAL WESTERN NC
Poster 27

Victoria Whidden, Physics Undergraduate Student
Faculty Mentor: Brooke Hester, Physics and Astronomy
Co-Author(s): N/A
Title: POWER SPECTRA OF OPTICALLY TRAPPED GOLD NANOSHELLS
Poster 28

Tyler Crank, Building Sciences Undergraduate Student
Faculty Mentor: Bhuwan Thapa, Geography and Planning
Co-Author(s): Nick Schrum Josh Platt
Title: STRATEGIES FOR IMPROVING WALKABILITY ON CAMPUS: CASE OF APPALACHIAN STATE UNIVERSITY
Poster 29

Ella Thompson, Chemistry Undergraduate Student
Faculty Mentor: Megan Culpepper, Chemistry and Fermentation Sciences
Co-Author(s): N/A
Title: INVESTIGATING SUBUNIT INTERACTIONS BETWEEN AN ENZYME INVOLVED IN SULFUR CYCLING
Poster 30

Wayne Blanchette, Biology Undergraduate Student
Faculty Mentor: Mary Kinkel, Biology
Co-Author(s): MD Kinkel
Title: MAPPING GASTRIC MOTILITY GENE EXPRESSION ACROSS ZEBRAFISH DEVELOPMENTAL STAGES
Poster 31

Ally Lawing, Biology Undergraduate Student
Faculty Mentor: Rachel Bleich, Biology
Co-Author(s): Dr. Janelle Arthur, Freedom Johnson, Dom Diprospero
Title: WRINKLING PHENOTYPES OF CO-CULTURAL INTERACTIONS BETWEEN ADHERENT-INVASIVE ESCHERICHIA COLI AND ENTEROCOCCUS FAECALIS SUGGEST AN EFFECT OF BIOFILM FORMATION
Poster 32

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

Jennifer Belk, Biology Undergraduate Student

Faculty Mentor: Matt Estep, Biology

Co-Author(s): N/A

Title: ADDING POPULATIONS TO OUR UNDERSTANDING OF GENETIC DIVERSITY IN
LIATRIS HELLERI PORTER (ASTERACEAE)

Poster 40

Megan Clements, Biology Graduate Student

Faculty Mentor: Matt Estep, Biology

Co-Author(s): Matt Estep

Title: DEVELOPMENT OF MICROSATELLITE MARKERS USING SEVERAL POPULATIONS
OF SANGUINARIA CANADENSIS TO INFORM CONSERVATION EFFORTS.

Poster 41

PJ Coleman, Biology Undergraduate Student

Faculty Mentor: Jennifer Geib, Biology

Co-Author(s): Paul Super, Ally Jacob, Nicole Lowder, Jennifer Geib

Title: SYRPHIDAE OF THE SOUTHERN APPALACHIANS: DIVERSITY AND DISTRIBUTION

Poster 42

Emily Gillikin, Biology Undergraduate Student

Faculty Mentor: Lynn Siefferman, Biology

Co-Author(s): Clarice Perry

Title: IMPACTS OF HABITAT QUALITY AND PARASITISM ON GROWTH OF NESTLING
SONGBIRDS

Poster 43

Alan Huff, Biology Undergraduate Student

Faculty Mentor: Howard Neufeld, Biology

Co-Author(s): N/A

Title: INFLUENCES OF LEAF INCLINATION AND ORIENTATION ON WINTER GAS
EXCHANGE IN YUCCA FILAMENTOS

Poster 44

Ishani Chattopadhyay, Biology Graduate Student

Faculty Mentor: Andrew Bellemer, Biology

Co-Author(s): Dr. Andrew Bellemer

Title: THE ROLE PVR, A GROWTH FACTOR RECEPTOR, PLAYS IN THERMAL
NOCICEPTION IN DROSOPHILA

Poster 45

Lily Elkin, Biology Undergraduate Student

Faculty Mentor: Rachel Bleich, Biology

Co-Author(s): Emma Metcalf

Title: THE ROLE OF INHERENT INVASIVE E. COLI ON INFLAMMATORY BOWEL DISEASES

Poster 46

Hannah Lilly, Biology Undergraduate Student

Faculty Mentor: Dr Howard Neufeld, Biology

Co-Author(s): N/A

Title: VARIATION AMONG INDIVIDUAL PLANTS OF GOLDEN RAGWORT (PACKERA

AUREA) WITH REGARDS TO THE PRESENCE OF ABAXIAL ANTHOCYANINS IN

OVERWINTERING BASAL LEAVES

Poster 47

Justin Price, Biology Undergraduate Student

Faculty Mentor: Rachel Bleich, Biology

Co-Author(s): n/a

Title: METABOLITES FORMED BETWEEN PROINFLAMMATORY MICROORGANISMS

LINKED TO INFLAMMATORY BOWEL DISEASES

Poster 48

Cara Cywinski, Environmental Science Undergraduate Student

Faculty Mentor: Sarah Carmichael, Geological and Environmental Sciences

Co-Author(s): Peter Königshof Phuong Ta Hoa

Title: GEOCHEMISTRY OF ULTRAPURE CARBONATES ACROSS THE

FRASNIAN/FAMENNIAN BOUNDARY INTERVAL IN SOUTHEAST ASIA (XOM NHA

FORMATION, CENTRAL VIETNAM)

Poster 49

Jacqui Foronda, Environmental Science Undergraduate Student

Faculty Mentor: Sarah Carmichael, Geological and Environmental Sciences

Co-Author(s): Cara Cywinski, Peter Königshof, Ariuntogos Munkhjargal, Sersmaa Gonchigdorj,

Dalaijamts Gantumur, Johnny Waters, Will Waters, Catherine Crônier, and Magnus Kallner

Title: MAPPING THE MIDDLE TO LATE DEVONIAN IN THE SHINEJINST REGION OF THE

SOUTHERN GOBI DESERT, MONGOLI

Poster 50

Anna-Maria Riley, Biology Graduate Student

Faculty Mentor: Sarah Carmichael, Geological and Environmental Sciences

Co-Author(s): Dr. Suzanna Bräuer

Title: HUMAN IMPACT IN APPALACHIAN CAVE SYSTEMS: HOW THE PRESENCE OF

PEOPLE INFLUENCES THE NATIVE MICROBIAL CAVE SPECIES

Poster 51

Carter Smith, Environmental Science Undergraduate Student

Faculty Mentor: Cole Edwards, Geological and Environmental Sciences

Co-Author(s): N/A

Title: INVESTIGATING THE LATE DEVONIAN FRASNIAN-FAMENNIAN MASS EXTINCTION THROUGH PAIRED CARBON AND SULFUR STABLE ISOTOPES

Poster 52

Alyssa Wurtz, Geology Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): N/A

Title: A NEW MICROVERTEBRATE ASSEMBLAGE FROM THE UPPER CRETACEOUS (CAMPANIAN-MASSTRICHTIAN) WILLIAMS FORK FORMATION, NORTHWESTERN COLORADO, USA

Poster 53

Michael Dickerson, Geology Undergraduate Student

Faculty Mentor: Jamie Levine, Geological and Environmental Sciences

Co-Author(s): Gabriele Casale

Title: INVESTIGATING CLASTIC SEDIMENTS DEPOSITED DURING RIFTING: EBSD AND MINERALOGICAL ANALYSIS OF THE LATE PROTEROZOIC GRANDFATHER MOUNTAIN METACONGLOMERATE OF WESTERN NORTH CAROLINA

Poster 54

Vanya Dill, Geology Undergraduate Student

Faculty Mentor: Brian Zimmer, Geological and Environmental Sciences

Co-Author(s): Scott Marshall, and Cynthia Liutkus-Pierce

Title: DETECTING EROSION AT THE ENGARE SERO FOOTPRINT SITE, TANZANIA

Poster 55

Emma Ferm, Environmental Science Undergraduate Student

Faculty Mentor: Sarah Evans, Geological and Environmental Sciences

Co-Author(s): Sarah E. Godsey, Key Hatch, Rachel Harris, Brandon Yokeley

Title: TEMPERATURE OF RAINFALL IN ARCTIC REGIONS UNDERLAIN BY CONTINUOUS PERMAFROST

Poster 56

Rachel Harris, Environmental Science Undergraduate Student

Faculty Mentor: Sarah Evans, Geological and Environmental Sciences

Co-Author(s): Dr. Scott T. Marshall, Dr. Sarah E. Godsey, Emma Ferm, Key Hatch, Brandon Yokeley

Title: USING GEOPHYSICS TO CONSTRAIN SUBSURFACE MASSIVE ICE FORMATIONS ALONG PERMAFROST HILLSLOPES ON THE NORTH SLOPE OF ALASKA, USA

Poster 57

Luke Rose, Geology Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): N/A

Title: SEDIMENTOLOGY, STRATIGRAPHY, AND TAPHONOMY OF THE UPPER TRIASSIC (REVUELTIAN:NORIAN) HOMESTEAD SITE IN EAST-CENTRAL NEW MEXICO, U.S.A.

Poster 58

Skye-Anne Tschoepe, Environmental Science Undergraduate Student

Faculty Mentor: William Anderson, Geological and Environmental Sciences

Co-Author(s): N/A

Title: MANAGING STORMWATER RUNOFF IN THE HIGH COUNTRY: AN ASSESSMENT OF SALT TRANSPORT THROUGH A CONSTRUCTED WETLAND IN BOONE, NORTH CAROLINA

Poster 59

Jonah Bird, Geography Graduate Student

Faculty Mentor: Bhuwan Thapa, Geography and Planning

Co-Author(s): Stephen Poupart

Title: ARE APPALACHIAN TOWNS & CITIES PREPARED FOR CLIMATE CHANGE? CLIMATE INITIATIVES IN TOWNS & CITIES OF APPALACHIA REGION

Poster 60

Vennice Rondinelli-Albarran, Sustainable Development Undergraduate Student

Faculty Mentor: Bhuwan Thapa, Geography and Planning

Co-Author(s): Winifred Rhea-Unruh

Taylor Apel

Title: NATURE-BASED SOLUTIONS FOR CLIMATE RISK MANAGEMENT IN BOONE, NC

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Withdrawn

Poster 62

Grace Waugh, Sustainable Technology Undergraduate Student

Faculty Mentor: Jeremy Ferrell, Sustainable Technology and the Built Environment

Co-Author(s): N/A

Title: WASTE TO RICHES: HEATED VERMICOMPOSTING BIN FROM A REPURPOSED SOLAR THERMAL COLLECTOR

Poster 63

Duncan Burns, Sustainable Technology Undergraduate Student

Faculty Mentor: Sohad Abu-Elzait, Sustainable Technology and the Built Environment

Co-Author(s): Robert Conolly

Title: SMALL WIND AND PHOTOVOLTAIC MICROGRID PERFORMANCE TESTING

Poster 64

Brandon Ellis, Exercise Science Graduate Student
Faculty Mentor: Dr. Jared Skinner, Public Health and Exercise Science
Co-Author(s): Dr. Travis Triplett, Dr. Ashely Marshall, Bryson Campbell, Hunter Anderson
Title: THE EFFECTS OF COLD WATER IMMERSION ON PREFRONTAL CORTEX
OXYGENATION, SALIVARY CORTISOL LEVELS, AND EXECUTIVE FUNCTIONING
Poster 65

Breanna Gibson, Exercise Science Undergraduate Student
Faculty Mentor: Jared Skinner, Public Health and Exercise Science
Co-Author(s): N/A
Title: ASSESSING HABITUAL AND EXERCISE ACTIVITY OF PERSONS WITH
PARKINSON'S DISEASE FOR THE PREVENTION OF FALLS
Poster 66

Natalie Thulien, Exercise Science Undergraduate Student
Faculty Mentor: Jared Skinner, Public Health and Exercise Science
Co-Author(s): Ansley Patton
Title: EFFECTS OF AGING ON GAIT, HAND GRIP STRENGTH AND CORRELATING
PHYSICAL ACTIVITY LEVELS FOR OLDER ADULTS IN THE HIGH COUNTRY
Poster 67

Ben Estorge, Nutrition Graduate Student
Faculty Mentor: Manan Roy, Nutrition and Health Care Management
Co-Author(s): Alisha Farris and Danielle Nunnery
Title: EVALUATION OF NUTRITION POLICIES AND PROGRAMS IN INDIA: A LITERATURE
REVIEW
Poster 68

Megan Hall, Nursing Graduate Student
Faculty Mentor: Rebecca Turpin, Nursing
Co-Author(s): N/A
Title: IS IT TOO LATE FOR US? IMPROVING INTERPROFESSIONAL COMMUNICATION
POST LICENSURE
Poster 69

Rachel Stern, Psychology Undergraduate Student
Faculty Mentor: Doris Bazzini, Psychology
Co-Author(s): N/A
Title: A STUDY ON IMAGINED EVENTS IN ROMANTIC RELATIONSHIPS
Poster 70

Will Swofford, Chemistry Undergraduate Student
Faculty Mentor: Alexander Schwab, Chemistry and Fermentation Sciences
Co-Author(s): N/A

Title: EQUILIBRIA AND MECHANICAL PROPERTIES IN COPPER(II) CROSSLINKED
BIPYRIDINE TERMINATED POLY(DIMETHYL)SILOXANE

Poster 71

Carson Shivers, Chemistry Undergraduate Student

Faculty Mentor: Nicholas Shaw, Chemistry and Fermentation Sciences

Co-Author(s): Freedom Johnson

Title: SYNTHESIS OF 4-AMINO-3-HYDROXYPYRROLE-2-CARBOXYLIC ACIDS FOR
NUCLEOTIDE SEQUENCE RECOGNITION

Poster 72

Carter Rodgers, Chemistry Undergraduate Student

Faculty Mentor: Christian Wallen, Chemistry and Fermentation Sciences

Co-Author(s): N/A

Title: COORDINATION OF SMALL PROTIC LIGANDS TO METAL COMPLEXES WITH
SECOND-SPHERE HYDROGEN BONDING

Poster 73

Withdrawn

Poster 74

Rachel Lowell, Art and Visual Culture Undergraduate Student

Faculty Mentor: Erin Peters, Art

Co-Author(s): N/A

Title: THE PREVALENCE OF DEITIES IN CHILDBIRTH AND FERTILITY ART AND
ARTIFACTS FROM ANCIENT EGYPT

Poster 75

Oral Session Morning 10:00am - 11:00am Room 415 Plemmons Student Union

Rowaida Hamdan, Psychology Undergraduate Student

Faculty Mentor: Chris Dickinson, Psychology

Co-Author(s): N/A

Title: USING EYE TRACKING TO QUANTIFY AESTHETIC JUDGMENTS

Presentation time 10:00am

Taylin Spurlock, Geography Graduate Student

Faculty Mentor: Maggie Sugg, Geography and Planning

Co-Author(s): Dr. Jennifer Runkle, and Dr. Dennis Guigent

Title: EXAMINING HURRICANE EXPOSURE ON NEONATAL OUTCOMES IN NORTH CAROLINA: A CASE STUDY OF HURRICANE ISABEL

Presentation time 10:20am

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 PROGLACIAL SUSPENDED SEDIMENT CONCENTRATION USING LARGE SCALE REMOTE SENSING

Presentation time 10:40am

Oral Session Morning 11:00am-12:00pm Room 417 Plemmons Student Union

Gracie Portagallo, Engineering Physics Graduate Student

Faculty Mentor: Brooke Hester, Physics and Astronomy

Co-Author(s): Caroline Donaghy, Lucian Murray, Megan Culpepper

Title: MEASUREMENTS OF PROTEIN BINDING VIA FLUORESCENCE ANISOTROPY

Presentation time 11:00am

Hunter Hixon, Physics Undergraduate Student

Faculty Mentor: Brooke Hester, Physics and Astronomy

Co-Author(s): Nate Parillo

Title: ENGINEERING A CUSTOM-BUILT OPTICAL TWEEZERS MICROSCOPE INSTRUMENT

Presentation time 11:20am

Henry Kolesar, Physics Graduate Student

Faculty Mentor: Brooke Hester, Physics and Astronomy

Co-Author(s): Brooke Hester

Title: LASER TRAPPING RAMAN SPECTROSCOPY

Presentation time 11:40am

Afternoon Sessions Poster Presentation 1:00pm - 2:30pm Parkway Ballroom

Gabby Andux, Recreation Management Undergraduate Student

Faculty Mentor: Jill Juris, Recreation Management and Physical Education

Co-Author(s): Jack Carson, Katherine Uva, and Raven Weaver

Title: LEISURE AS COPING DURING COVID-19: A STUDY OF COLLEGE STUDENTS

Poster 80

Caeden Carter, Geology Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): Luke Rose

Title: TAPHONOMY, WITH AN EMPHASIS ON PRESERVATION BIAS, OF THE REVUELTIAN (UPPER TRIASSIC: NORIAN) AGED HOMESTEAD SITE VERTEBRATE FOSSIL ASSEMBLAGE FROM THE GARITA CREEK FORMATION OF EAST-CENTRAL NEW MEXICO, USA

Poster 81

Renee Dunn, Geology Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): Alyssa Wurtz

Title: HYDROGEN PEROXIDE BREAKDOWN OF FOSSILIFEROUS SEDIMENTS FROM UPPER CRETACEOUS MICROVERTEBRATE SITES IN THE WILLIAMS FORK FORMATION, NORTHWESTERN COLORADO

Poster 82

Trishlyn Pannell, My major was not listed Undergraduate Student

Faculty Mentor: Bhuwan Thapa, Geological and Environmental Sciences

Co-Author(s): N/A

Title: UNDERSTANDING THE RELATIONSHIP BETWEEN WINDBREAKS AND WIND-RELATED CROP LOSS

Poster 83

James Auwn, Biology Undergraduate Student

Faculty Mentor: Andrew Bellemer, Biology

Co-Author(s): N/A

Title: IDENTIFYING THE ROLE OF EUKARYOTIC TRANSLATION INITIATION FACTOR 3G1 IN NOCICEPTION

Poster 84

Benjamin Crawford, Biology Undergraduate Student

Faculty Mentor: Annkatrin Rose, Biology

Co-Author(s): Annkatrin Rose

Title: SEQUENCE IDENTIFICATION AND METABOLIC ANALYSIS OF ENDOPHYTES IN SHINING CLUBMOSS (HUPERZIA LUCIDULA)

Poster 85

Matthew Johnson, Biology Undergraduate Student
Faculty Mentor: Jennifer Geib, Biology
Co-Author(s): Emma Rasco, Mary Frances Burrow
Title: VIRAL SPILLOVER FROM HONEYBEE APIARIES IN NATIVE BEE POPULATIONS
Poster 86

Withdrawn
Poster 87

Bryce Norvell, Biology Graduate Student
Faculty Mentor: Suzanna Brauer, Biology
Co-Author(s): Sarah Carmichael
Title: THE EFFECTS OF SUBSTRATE GEOCHEMISTRY ON THE DISTRIBUTION OF
MANGANESE OXIDIZING BACTERIA IN CAVES
Poster 88

Sara Palega, Biology Graduate Student
Faculty Mentor: Andrew Bellemer, Biology
Co-Author(s): Rebecca Stewart
Title: THE ROLE OF THE RNA-BINDING PROTEIN, PUMILIO, IN THE REGULATION OF
NOCICEPTION
Poster 89

Juanita Valencia Rincon, Biology Undergraduate Student
Faculty Mentor: Chequita Brooks, Biology
Co-Author(s): Chequita Brooks, Suzanna Brauer, Rachel Bleich
Title: MICROBIAL DIVERSITY IN THE APPALACHIAN STATE UNIVERSITY DUCK POND
Poster 90

Hailey Ward, Biology Graduate Student
Faculty Mentor: Maryam Ahmed, Biology
Co-Author(s): Darren Seals
Title: MELITTIN IN COMBINATION WITH VESICULAR STOMATITIS VIRUS FOR THE
TREATMENT OF TRIPLE NEGATIVE BREAST CANCER
Poster 91

Rebecca Foley, Chemistry Undergraduate Student
Faculty Mentor: Christian Wallen, Chemistry and Fermentation Sciences
Co-Author(s): Morgan Hern, Carter Rodgers
Title: EFFECTS OF ALTERED LIGAND STRUCTURE ON THE COORDINATION OF
INDUSTRIALLY-RELEVANT PROTIC MOLECULES TO SULFONAMIDATE METAL
COMPLEXES WITH SECOND SPHERE HYDROGEN BONDING
Poster 92

Morgan Hern, Chemistry Undergraduate Student
Faculty Mentor: Christian Wallen, Chemistry and Fermentation Sciences
Co-Author(s): Carter Rodgers, Becky Foley
Title: COORDINATION OF INDUSTRIALLY-RELEVANT PROTIC MOLECULES TO
METAL-SULFONAMIDATE COMPLEXES WITH SECOND-SPHERE HYDROGEN BONDING
Poster 93

Withdrawn
Poster 94

Heide Emmanuel, Graphic Design Undergraduate Student
Faculty Mentor: Bhuwan Thapa, Geography and Planning
Co-Author(s): Emily Suit
Title: PATHWAYS FOR STRENGTHENING CAMPUS SUSTAINABILITY INITIATIVES AT
APPALACHIAN STATE UNIVERSITY
Poster 95

Abigail Branco, Psychology Undergraduate Student
Faculty Mentor: Shawn Bergman, Psychology
Co-Author(s): Aidan Powell, Robert Gruber, Brenna McNamara, Samantha Plourde
Title: CAN PSYCHOLOGY STUDENTS SOLVE TOP INDUSTRY ISSUES?
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Withdrawn
Poster 97

Olivia Hydzik, Psychology Undergraduate Student
Faculty Mentor: Yalcin Acikgoz, Psychology
Co-Author(s): Ena Hodzic, Samuel Whiteheart, Aspen Wood, Mary Covington, Alexis Jones, Ty Graves, Madison Culver
Title: REMOTE OR IN PERSON WORK: HOW DO PERSONALITY AND QUALIFICATIONS
RELATE TO PERFORMANCE?
Poster 98

Layla Koroleva, Applied Data Analytics Graduate Student
Faculty Mentor: Jason Xiong, Computer Information Systems
Co-Author(s): N/A
Title: ANALYSIS OF THE RELATIONSHIP BETWEEN FEMALE EDUCATION AND BUSINESS
OWNERSHIP IN NORTH CAROLINA
Poster 99

Shawn Roberts, Exercise Science Graduate Student
Faculty Mentor: Alan Needle, Public Health and Exercise Science
Co-Author(s): Kelsey Holmes, Mabry Watson

Title: STARTLE RESPONSE DURING DYNAMIC MOVEMENT AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION

Poster 100

Dara Kodack, Exercise Science Undergraduate Student

Faculty Mentor: Andrew Shanely, Public Health and Exercise Science

Co-Author(s): Noah C. Kaufmann, K. Bryan Taylor, Emily C. Bauer, Favian Morales, Camryn Olsen, N. Travis Triplett, Jeffery M. McBride

Title: EXPLORING THE RELATIONSHIP BETWEEN VISCERAL ADIPOSE TISSUE AND SKELETAL MUSCLE DENSITY

Poster 101

Favian Morales, Exercise Science Undergraduate Student

Faculty Mentor: Tamaro Hudson

Co-Author(s): Collis Brown

Title: STABLY TRANSDUCED ANNEXIN 2 AND SPINK1 INDUCED DIFFERENTIAL PROSTATE CANCER GROWTH

Poster 102

Alex Worley, Exercise Science Graduate Student

Faculty Mentor: Marco Meucci, Public Health and Exercise Science

Co-Author(s): Kimberly Fasczewski, Andrew Shanely

Title: THE ASSOCIATION BETWEEN THE FUNCTIONAL THRESHOLD POWER AND THE DMAX AND THE GAS EXCHANGE ANAEROBIC THRESHOLD IN TRAINED ENDURANCE CYCLISTS

Poster 103

Ansley Patton, Exercise Science Undergraduate Student

Faculty Mentor: Jared Skinner, Public Health and Exercise Science

Co-Author(s): Natalie Thulien

Title: ASSESSMENT AND MANAGEMENT OF PHYSICAL ACTIVITY OF OLDER ADULTS IN THE HIGH COUNTRY

Poster 104

Nickolos Monk, Computer Science Undergraduate Student

Faculty Mentor: Noah Williams, Mathematical Sciences

Co-Author(s): N/A

Title: DEFINING TRAJECTORIES FROM RECURSIVE PAIRING BETWEEN ZEROS AND CRITICAL POINTS OF DERIVATIVES OF RANDOM POLYNOMIALS WITH INDEPENDENT ROOTS

Poster 105

Bryson Hedrick, Physics Undergraduate Student

Faculty Mentor: Brooke Hester, Physics and Astronomy

Co-Author(s): N/A

Title: AXIAL CALIBRATION OF CUSTOM BUILT AUTOMATED OPTICAL TWEEZERS

Poster 106

Anna Koulovatos, Physics Undergraduate Student

Faculty Mentor: Brooke Hester, Physics and Astronomy

Co-Author(s): N/A

Title: POWER SPECTRA OF TRAPPED PARTICLES IN OPTICAL TWEEZERS

Poster 107

Oral Session 3 1:00-2:20pm Room 415 Plemmons Student Union

Josie Beasley, Biology Undergraduate Student

Faculty Mentor: Chequita Brooks, Biology

Co-Author(s): Rachel Bleich, Kevin Zwetsloot, Michael Opata

Title: INVESTIGATING EXERCISE'S IMPACT ON INTESTINAL INTEGRITY AND IMMUNE ACTIVATION

Presentation time 1:00pm

Francois Desautels, Biology Undergraduate Student

Faculty Mentor: Andrew Bellemer, Biology

Co-Author(s): N/A

Title: THERAPEUTIC TREATMENTS FOR EPILEPSY IN DROSOPHILA MELANOGASTER

Presentation time 1:20pm

Madeline Wight, Biology Graduate Student

Faculty Mentor: Rachel Bleich, Biology

Co-Author(s): Aline M. A. de Souza, Chequita Brooks, Crystal A. West

Title: IMPACT OF SEVERE FOOD RESTRICTION ON GUT MICROBIOME DIVERSITY AND THE CARDIOVASCULAR SYSTEM

Presentation time 1:40pm

Elva Swibold, Biology Undergraduate Student

Faculty Mentor: Lynn Siefferman, Biology

Co-Author(s): N/A

Title: THE EFFECTS OF HIDDEN NEST ECTOPARASITES ON THE DEVELOPMENT OF A SEXUALLY SELECTED TRAIT IN JUVENILE EASTERN BLUEBIRDS

Presentation time 2:00

Afternoon Session Poster Presentations 2:40pm - 4:00pm Parkway Ballroom

Porter Dalton, Sustainable Technology Graduate Student

Faculty Mentor: Jeff Ramsdell, Sustainable Technology and the Built Environment

Co-Author(s): N/A

Title: HOW DO GENERATIONAL AGE GROUPS COMPARE IN HOW THEY VALUE THE DIFFERENT ENVIRONMENTAL IMPACTS OF NEW VEHICLE PRODUCTION?

Poster 116

Micaela Patterson, Environmental Science Undergraduate Student

Faculty Mentor: Matthew Ogwu, Sustainable Development

Co-Author(s): Pia Senchak

Title: PHOSPHORUS MINING AND BIOAVAILABILITY FOR ENVIRONMENTAL SUSTAINABILITY

Poster 117

Travis Taylor, Mathematics Graduate Student

Faculty Mentor: Chris Thaxton, Physics and Astronomy

Co-Author(s): Nick Mencis, Joshua McNeill, Tomas Romero, Brynn Welch

Title: MODELING THE EFFECTS OF OBJECT-INDUCED TURBULENCE ENHANCEMENT ON SEAFLOOR OBJECT SCOUR AND BURIAL

Poster 118

Kaitlyn Miller, Psychology Undergraduate Student

Faculty Mentor: Jack Carson, Management

Co-Author(s): Morgan Greene, Mariana Solanilla, Mackenzie Law

Title: VALUE ALIGNMENT IN WORKERS AND ORGANIZATIONAL MESSAGING OF ENVIRONMENTALLY SUSTAINABLE INITIATIVES

Poster 119

Withdrawn

Poster 120

Keyona Anthony, Psychology Undergraduate Student

Faculty Mentor: Mary Ballard, Psychology

Co-Author(s): Anastacia Schulhoff

Title: CYBERBULLYING AS RELATED TO SCHOOL TRANSITIONS DURING THE COVID-19 PANDEMIC

Poster 121

Kelly Davis, Psychology Graduate Student

Faculty Mentor: Lisa Curtin, Psychology

Co-Author(s): Jacqueline Hersh, PhD; John Paul Jameson, PhD

Title: INTENT TO RECEIVE A COVID-19 VACCINATION AMONG COLLEGE STUDENTS:
THEORY OF PLANNED BEHAVIOR AND SOCIODEMOGRAPHIC PREDICTORS

Poster 122

Abryanna Vidot, School Psychology Graduate Student

Faculty Mentor: Jamie Yarbrough, Psychology

Co-Author(s): Natalie G. Moyer, Laura A. MacLean, Caroline N. Cummings, Hannah M. King,
Tierney C. O'Brien, Sara Hehn, Mlynn Wooden, India M. Horn,

Title: RACIAL DISPROPORTIONALITY IN TEACHER DISCIPLINE REFERRALS

Poster 123

Janaka Volpe, Psychology Undergraduate Student

Faculty Mentor: Lisa Emery, Psychology

Co-Author(s): Corinne Nocar, James Auwn, Brenna McNamara, Emilie Murdoch, Helen
Vonderhaar, Jonathan Taylor, Maia Harbaugh, Myers Busch, Katie Gundry

Title: ROBBERS, RENTERS, & RECALL: PERSPECTIVE AND STORY MEMORY

Poster 124

Sarah Hehn, School Psychology Graduate Student

Faculty Mentor: Jamie Yarbrough, Psychology

Co-Author(s): Natalie Moyer, Laura Maclean, Abryanna Vidot, Caroline Cummings, Hannah
King, Tierney O'Brien, Sara Hehn, Mlynn Wooden, India Horn

Title: DOES MODE OF INSTRUCTION IMPACT ACADEMIC AND SOCIAL SUCCESS?

Poster 125

Katelyn Saunders, Psychology Undergraduate Student

Faculty Mentor: Reagan Breitenstein, Psychology

Co-Author(s): Lisa Curtin, PhD

Title: THE IMPACT OF COVID-19 ON DEPRESSION AND ANXIETY WITH SOCIAL
SUPPORT AS A PROTECTIVE FACTOR

Poster 126

Bryson Campbell, Exercise Science Undergraduate Student

Faculty Mentor: Jared Skinner, Public Health and Exercise Science

Co-Author(s): Brandon Ellis and Hunter Anderson

Title: THE EFFECT OF COLD WATER IMMERSION ON EXECUTIVE FUNCTIONING

Poster 127

Jaden Tuitt, Exercise Science Undergraduate Student

Faculty Mentor: Jared Skinner, Public Health and Exercise Science

Co-Author(s): N/A

Title: EFFECT OF MARTIAL ARTS COMPETITION EXPERIENCE ON INJURY CHARACTERISTICS

Poster 128

Key Hatch, Environmental Science Undergraduate Student

Faculty Mentor: Sarah Evans, Geological and Environmental Sciences

Co-Author(s): Sarah Godsey, Emma Ferm, Rachel Harris, Brandon Yokeley, Clara Chew, Benjamin Crosby

Title: CONTROL OF VEGETATION MICROCLIMATES ON SHALLOW GROUND TEMPERATURES ABOVE CONTINUOUS PERMAFROST

Poster 129

Jeremy Heidenfelder, Geology Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): N/A

Title: THE MORPHOLOGY OF TANYSTROPHEIDS (REPTILIA ARCHASAUROMORPHA) OF THE UPPER TRIASSIC (REVUELTIAN MID-NORIAN) HOMESTEAD SITE IN EAST CENTRAL NEW MEXICO

Poster 130

Jordan Ulmer, Environmental Science Undergraduate Student

Faculty Mentor: William Armstrong, Geological and Environmental Sciences

Co-Author(s): N/A

Title: ALASKA'S CHANGING PROGLACIAL RIVER SYSTEMS: TRENDS AND POTENTIAL MECHANISMS

Poster 131

Joshua Crouch, Geology Undergraduate Student

Faculty Mentor: Andrew Heckert, Geological and Environmental Sciences

Co-Author(s): Caeden Carter, Luke Rose

Title: PRELIMINARY TAPHONOMY OF A REVUELTIAN (UPPER TRIASSIC: NORIAN) AGE COPROLITE ASSEMBLAGE FROM THE HOMESTEAD SITE OF THE GARITA CREEK FORMATION, EAST-CENTRAL NEW MEXICO, USA

Poster 132

Anna Bryant, Chemistry Undergraduate Student

Faculty Mentor: Megan Culpepper, Chemistry and Fermentation Sciences

Co-Author(s): N/A

Title: EXPRESSION AND PURIFICATION OF DIMETHYL SULFIDE MONOOXYGENASE FROM ITS NATIVE SOURCE, ARTHROBACTER GLOBIFORMIS

Poster 133

Jack McKeon, Chemistry Undergraduate Student

Faculty Mentor: Jefferson Bates, Chemistry and Fermentation Sciences

Co-Author(s): Sybella Work

Title: PREDICTING ARYL CARBENE SINGLET-TRIPLET ENERGY DIFFERENCES BEYOND THE RANDOM PHASE APPROXIMATION

Poster 134

Aydan Gibbs, Physics Undergraduate Student

Faculty Mentor: Brooke Hester, Physics and Astronomy

Co-Author(s): Nate Parillo Claire Brown

Title: FEEDBACK CIRCUIT FOR A TEMPERATURE CONTROLLED MICROSCOPE SAMPLE CHAMBER FOR STUDIES OF HUMAN BIOLOGICAL MICROBES IN AN OPTICAL TWEEZER APPARATUS

Poster 135

Ryan Whitfield, Psychology Undergraduate Student

Faculty Mentor: Mark Venable, Biology

Co-Author(s): N/A

Title: IDENTIFICATION OF A NATURAL PHOSPHOLIPASE A2 INHIBITOR FOR USE AS A NOVEL ANTIVENOM

Poster 136

Eliza Watson, Biology Graduate Student

Faculty Mentor: Darren Seals, Biology

Co-Author(s): Maryam Ahmed

Title: DEVELOPMENT OF A SIMULATED TUMOR MICROENVIRONMENT TO MONITOR MACROPHAGE-CANCER CELL RESPONSES TO VIROTHERAPIES

Poster 137

Ava Stoddard, Biology Undergraduate Student

Faculty Mentor: Darren Seals, Biology

Co-Author(s): Hannah Wolf, Megan Polzin, Maryam Ahmed, Darren F. Seals

Title: PODOsome ACTIVITIES AMONG M1 AND M2 THP-1 MACROPHAGE

Poster 138

Lindsey Pleasant, Biology Undergraduate Student

Faculty Mentor: Mary Kinkel, Biology

Co-Author(s): Deja Cooper

Title: INTESTINAL MOTILITY GENE EXPRESSION MAPPING IN ZEBRAFISH

Poster 139

Rosemary Ronca, Biology Graduate Student

Faculty Mentor: Jon Davenport, Biology

Co-Author(s): N/A

Title: ESTIMATING HABITAT INDICATORS OF THE SOUTHERN APPALACHIAN ENDEMIC,
PLETHODON WELLERI

Poster 140

Grace Kropelin, Biology Graduate Student

Faculty Mentor: Clare Scott-Chialvo, Biology

Co-Author(s): N/A

Title: IS DROSOPHILA GUTTIFERA TRANSITIONING TO A SPECIALIST?

Poster 141

Morgan Gill, Biology Undergraduate Student

Faculty Mentor: Jennifer Geib, Biology

Co-Author(s): Brooke Reutinger, Annkatrin Rose, Annika Fockler, Brooke Walters

Title: SPATIAL AND PHENOLOGICAL VARIATION OF FLOWERING PLANT SPECIES
ALONG THE BLUE RIDGE PARKWAY

Poster 142

Noah Estrada, Biology Undergraduate Student

Faculty Mentor: Cara Fiore, Biology

Co-Author(s): Brooke Stevens, Nile Crump

Title: THE IDENTIFICATION AND DISTRIBUTION OF FRESHWATER SPONGES IN
WESTERN NORTH CAROLINA

Poster 143

Samuel Cooke, Biology Undergraduate Student

Faculty Mentor: Rachel Bleich, Biology

Co-Author(s): Janelle C. Arthur

Title: BIOFILM ANALYSIS OF ADHERENT-INVASIVE E. COLI AND E. FAECALIS
CO-CULTURES: AN EXPLORATION OF WATER CHANNELS

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Oral Session 4 2:40pm - 4:00pm Room 415 Plemmons Student Union

Emma Albertino, Clinical Psychology, PsyD and Psychology Graduate Student

Faculty Mentor: Denise Martz, Psychology

Co-Author(s): Lisa Curtin, Twila Wingrove

Title: HIGH PREVALENCE OF IN-PERSON AND TECHNOLOGICAL SEXUAL VIOLENCE AMONG WOMEN WITH EATING DISORDERS

Presentation time 2:40pm

Abby Cope, Public Health Undergraduate Student

Faculty Mentor: Jennifer Schroeder Tyson, Public Health and Exercise Science

Co-Author(s): John Richards

Title: AN ANALYSIS OF A MATERNAL, CHILD, AND FAMILY HEALTH MICROLEARNING PROGRAM FOR PUBLIC HEALTH AND NURSING STUDENTS AT APPALACHIAN STATE UNIVERSITY

Presentation time 3:00pm

Daniel Collins, Religious Studies Undergraduate Student

Faculty Mentor: Cuong Mai, Philosophy and Religion

Co-Author(s): N/A

Title: DEATH PREPARATION AND THE IDEAL DEATH COMPARED: JUDAISM AND BUDDHISM

Presentation time 3:20pm

Lydia Stonerook, Athletic Training Graduate Student

Faculty Mentor: Jennifer Howard, Rehabilitation Sciences

Title: FROM MILD COUGH TO SEPSIS: A CASE STUDY

Presentation time 3:40pm

Oral Session 5 2:40pm - 3:40pm 417 Plemmons Student Union

Morgan Gaglianese-Woody, Biology Graduate Student

Faculty Mentor: Matt Estep, Biology

Co-Author(s): N/A

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

Presentation time 2:40pm

Lauren Rusnak, Biology Undergraduate Student

Faculty Mentor: Megan Culpepper, Chemistry and Fermentation Sciences

Co-Author(s): Sierra Malley

Title: CHARACTERIZATION OF PUTATIVE DMS MONOOXYGENASE FROM OCEANOBACILLUS PIEZOTOLERANS

Presentation time 3:00pm

Ben Brewer, Biology Graduate Student

Faculty Mentor: Matt Estep, Biology

Co-Author(s): N/A

Title: ASSESSING THE GENETIC DIVERSITY AND STRUCTURE OF GRAY'S LILY (LILIUM GRAYI)

Presentation time 3:20pm

Thank you for participating in the Annual Celebration of Student
Research and Creative Endeavors!

