The Seventh Annual Graduate Scholars Forum
Wednesday, April 5, 2017

PROGRAM
Program At A Glance

8:00am-9:00am  Set up and Registration
9:00am-11:00am  Poster Display and Judging
10:00am-4:00pm  Graduate/Undergraduate Student Art Exhibition
                 Susquehanna Room
9:00am-10:15am  Oral Presentation A-Sessions
                • A1 Conemaugh Room: Kidney Disease
                • A2 Monongahela Room: Diverse Mathematical and Natural Science Issues
                • A3 Allegheny Room #1: Special Populations and Predictive Analysis
                • A4 Knowlton Room: Writing Practices
                • A5 Allegheny Room #2: Social Media
10:30am-11:45am Oral Presentation B-Sessions
                • B1 Conemaugh Room: Issues in Division II
                • B2 Monongahela Room: Health Education and Outreach
                • B3 Allegheny Room #1: Literary Themes
                • B4 Knowlton Room: Expression in Writing
                • B5 Allegheny Room #2: Diversity Issues in KHSS
12:00pm-1:00pm  Luncheon, Ohio Room
1:00pm  Graduate/Undergraduate Awards Ceremony &
         Inaugural Three-Minute Thesis Final Competition,
         Ohio Room
Seventh Annual IUP Graduate Scholars Forum

Sponsored by

Dr. Michael Driscoll,
IUP President

and

School of Graduate Studies and Research

Special Thanks to:

- Dr. Michael Driscoll, President
- Nathan Winters
- Paul Hawkins
- Dr. Hillary Creely
- ARL Staff
- Dr. Katie Farnsworth
- Forum Judges
- Dr. Beth Mabry
- Session Moderators
- Dr. Jennifer Gossett
- HUB Staff
- Dr. Rick Adkins
- SGSR Staff and GA's

Award Sponsors:

- IUP Research Institute
- IUP Libraries
- Graduate Student Assembly (GSA)
- Academic Deans
- IUP Ecology Club (ECO)
- Aramark

GSA Peer Choice Award (Oral and Poster Presentations)

The Graduate Student Assembly (GSA) will offer awards based on voting via a mobile device for select participants with poster and oral presentations in the 2017 Graduate Scholars Forum.

GSA Peer Choice Award (Three Minute Thesis)

The Graduate Student Assembly (GSA) will offer an award based on voting via a mobile device for one participant in the final competition for the Three Minute Thesis event during the Awards Ceremony.
ART EXHIBITION
10:00am-4:00pm
Susquehanna Room

This exhibition features artworks created by a select group of graduate and undergraduate Art majors. The artworks were juried by faculty members and represent the breadth of studio research conducted during the 2016/17 academic year.

125  Michael Bennett
126  Ashley Jones
127  Sarah Balough
128  Shiela Swartz
129  Jennifer Milkey

ORAL PRESENTATIONS

SESSION A1
9:00am-10:15am
Conemaugh Room

Kidney Disease

130  Rebecca Beer (Nursing) Chronic Kidney Disease Mentor: Dr. Kristy Chunta

88  Basma Adeeb (Biology) Screening for Molecules That Enhance Dimerization of Ihx1a Mentor: Dr. Cuong Diep

89  Wafaa Aljagthmi (Biology) Confirming Ihx1a Dimerization Using Split GFP Mentor: Dr. Cuong Diep

SESSION A2
9:00am-10:15am
Monongahela Room

Diverse Mathematical and Natural Science Issues

91  Derek Hanely (Math) Graph Theory and the Double-Critical Graph Conjecture Mentor: Dr. Rachelle Bouchat

92  Erich Hofmann (Biology) A Nonadaptive Radiation in a Complex of Highland Anoles (Dactyloidae) Mentor: Dr. Josiah Townsend

93  William Stropnicky (Biology) Crayfish and O-Desmethylvenlafaxine: More Consistent Aggression Mentor: Dr. David Janetski
94 Victoria Strange (Biology) Herpetofaunal Abundance and Diversity within Small Tropical Cloud Forests Embedded in a Human-Dominated Matrix: The Role of Sustainable Agriculture Practices in Central American Conservation  
Mentor: Dr. Joseph Duchamp

**SESSION A3**  
9:00am-10:15am  
Allegheny Room #1  
Special Populations and Predictive Analyses

95 Chelsea Clark (Sociology) Exploring Perceptions of Male Victimization in Prison Settings  
Mentor: Dr. Demond Mullins

96 Kayla Jachimowski (Criminology) A Comparison Between Diagnosed and Undiagnosed Mentally Disordered Inmates  
Mentor: Dr. Jonathon Cooper

97 Wan-Chun Lin (Criminology) Prescription Drug Use Among College Students: A Test of Criminal Spin Theory  
Mentor: Dr. Dennis Giever

98 Nathan Lilla and Megan Klein (Math) Predicting Defaults on Loans  
Mentor: Dr. Yu-Ju Kuo

**SESSION A4**  
9:00am-10:15am  
Knowlton Room  
Writing Practices

99 Zhigang Bai, Daewoo Jin and Jun Akiyoshi (English) What are the Expectations toward Writing Center? Perceptions from International ESL College Students and Composition Instructors  
Mentor: Dr. Dana Lynn Driscoll

100 Nouf Alshreif (English) Multilingual Writers in the Writing Center: Operationalizing Feminism to Accommodate the Needs of Multilingual Writers  
Mentor: Dr. Sharon Deckert

101 Lama Alharbi (English) Towards Inclusive Pedagogy: Reimagining Composition Classrooms through Socially Situated Writing Practices  
Mentor: Dr. Gloria Park
## SESSION A5
9:00am-10:15am  
Allegheny Room #2  

**Social Media**

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<td>Mark Beekman (Com Media) Non-Government Organizations and Social</td>
<td>Dr. Nurhaya Muchtar</td>
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<td>Justice Activism in Philadelphia, Pennsylvania</td>
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<td>103</td>
<td>Hamdi Echkaou (Com Media) Online Radios Airing New Digital Waves in</td>
<td>Dr. Nurhaya Muchtar</td>
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<td>Morocco</td>
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<td>104</td>
<td>Matthew Struss (Com Media) The Communication Process of Viral</td>
<td>Dr. Nurhaya Muchtar</td>
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<td>Marketing: Circumventing Regulations Via Social Media</td>
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<td>105</td>
<td>Daniel Dieter (Com Media) Man Optional: The Media Ecology of Robot</td>
<td>Dr. Zach Stiegler</td>
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## SESSION B1
10:30am-11:45am  
Conemaugh Room  

**Issues in Division II**

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<td>Evan Davis (KHSS) The Effects of Team Identification on Social and</td>
<td>Dr. Richard Hsiao</td>
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<td>Emotional Adjustment at a Division II University</td>
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<td>107</td>
<td>Kelly Anthony (KHSS) Assessment of Motivation and Grit in Individuals</td>
<td>Dr. Richard Hsiao</td>
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<td>Who Exercise at a Division II Fitness Facility</td>
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<td>108</td>
<td>Brianne Lenhart (KHSS) Analysis of Factors that Influence Satisfaction</td>
<td>Dr. Richard Hsiao</td>
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<td>of Fans at Division II Basketball Games</td>
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## SESSION B2
10:30am-11:45am  
Monongahela Room  

**Health Education and Outreach**

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<td>109</td>
<td>Nada Alsulami (Nursing) Teaching Module Hypertension</td>
<td>Dr. Kristy Chunta</td>
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<td>110</td>
<td>Murooj Bughdady (Nursing) Teaching Module Asthma</td>
<td>Dr. Kristy Chunta</td>
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</table>
111 Robert Matchett (Sociology) Disability Inclusion Workshops: Steps towards Creating an Inclusive Community Mentor: Dr. Demond Mullins

SESSION B3
10:30am-11:45am
Allegheny Room #1
Literary Themes

113 Jordan Gorsuch (English) Blood & Oil: A Marxist Critique of Upton Sinclair’s Oil! to Its Film Counterpart Mentor: Dr. Michael T Williamson

114 Katie Super (English) Why Methodism? George Eliot's Strategic Use of Religion in Adam Bede Mentor: Dr. Michael T Williamson

115 Olivia Maderer (English) Going “There and Back Again”: The Historical Search for Home, Identity and Humanity through Tolkien and Tennyson Mentor: Dr. Michael T Williamson

116 Taylor Jones (English) Immovable in Time: Cooperative Readings of Nadine Gordimer's The Pickup and Leslie Marmon Silko's Ceremony Mentor: Dr. Michael T Williamson

SESSION B4
10:30am-11:45am
Knowlton Room
Expression in Writing

117 Miad Alazmi, Norah Abdullah Rayyani, and Huifang Yuan (English) The Natural Images in Arabic and Chinese Poems Mentor: Dr. Michael T Williamson

118 Jialei Jiang and A.A. Alharthi (English) Cultural Difference and Creative Writing: Second Language Students’ Comprehension and Production of Metaphor in Poetry Mentor: Dr. Lilia Savova

119 Eric Wentz (English) ‘The Evening Star is gone’: Memory and the English Home in 19th Century British Poetry Mentor: Dr. Michael T Williamson

120 Jialei Jiang (English) Ratiolinguistic Ideologies and Language Learning: Asian American Students’ Narratives of Their Heritage Language and Culture Mentor: Dr. Lilia Savova
SESSION B5  
10:30am-11:45am  
Allegheny Room #2  
Diversity Issues in KHSS

121 Tommy Scales (Sports Management) Decision-Making Styles for Selecting Sports Apparel Between Men and Women  
Mentor: Dr. Richard Hsiao

122 Ashley Ryder (KHSS) The Influence of Specialization Versus Diversification in Youth Sport on Long-term Sport and Physical Activity Participation and Enjoyment  
Mentor: Dr. Richard Hsiao

123 Emily Wujcik (KHSS) Emergency Action Planning, Implementation, and Evaluation  
Mentor: Dr. Richard Hsiao

124 Mitchell Moyer (KHSS) Observing the Effects of Manipulating Rest Periods within A Lower-Body Resistance Training Program on Selected Strength, Power, Aerobic and Cognitive Outcomes  
Mentor: Dr. Hayden Gerhart

POSTERS/STATIC DISPLAYS  
9:00 am – 11:00 am  
Ohio Room

1 Kayla Smith, Nicole Carnevali, Jessica Potash and Kara Evans (Speech-Lang Path) Simply Brainy: Science or Pseudoscience  
Mentor: Dr. Lisa Hammett-Price

2 Larissa Bray and Heming Xia (Math) Examining the Volatility of the S&P 500 Index with ARCH Models  
Mentor: Dr. Yu-Ju Kuo

3 Brandon Good (Exercise Science) Prevalence and Knowledge of Metabolic Syndrome Risk Factors Among College-Aged Students  
Mentor: Dr. Kristi Storti

4 Daewoo Jin (English) Measuring L2 Student Writers’ Ownership of Creative and Academic Writing  
Mentor: Dr. David Hanauer

5 Nathan Kruis (Criminology) Age-Graded Informal Social Control and Opioid Addiction: Can Theories of Crime Desistance Help Address the Current Opioid Epidemic?  
Mentor: Dr. Alida Merlo

6 Keith Weible (Comm Disorders) Reliability of Automated Analysis of Laryngeal Diadochokinesis  
Mentor: Dr. Lori Lombard

7 Cassie Graham (Biology) Assessment of Shale Gas Development on Macroinvertebrate Community Structure in Pennsylvania’s Marcellus Shale Region  
Mentor: Dr. David Janetski
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<td>Jared Divido  (Anthropology)</td>
<td>Testing the use and reliability of 3D Scanning Technology in the construction of a Digital Comparative Faunal Bone Collection</td>
<td>Dr. Sarah Neusius</td>
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<td>Badr Alotibi  (English)</td>
<td>Hospitality in Western Saudi Arabia</td>
<td>Dr. Lilia Savova</td>
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<td>Amanda Trovato (Clinical Psychology)</td>
<td>Social Decision-Making in Individuals with Autism Spectrum Disorder: Examining the Effect of Facial Expression on Ultimatum Game Decisions</td>
<td>Dr. Lisa Newell</td>
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<td>Matthew Hassett (Criminology)</td>
<td>The Empirical Knowledge Base on the Concealed Carry of Firearms on Campus: A Systematic Review</td>
<td>Dr. Bitna Kim</td>
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<td>Lara Hauer    (English)</td>
<td>Evaluation of L2 Poetry by College Writing Instructors</td>
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<td>Suzanne Craig (Biology)</td>
<td>Characterizing a Role for the Circadian Timeless Gene in Planarian Regeneration</td>
<td>Dr. Robert Major</td>
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<td>Zaakiyah Cua and Britney Elsbury-Orris (Anthropology)</td>
<td>Distributional Analysis of a Sample of Faunal Remains from the Johnston Site (36IN2)</td>
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<td>Michael Barber (Math)</td>
<td>Hedging Climate Risk</td>
<td>Dr. Yu-Ju Kuo</td>
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<td>16</td>
<td>Michael Barber (Math)</td>
<td>Characterization of Northwest Rift Zone Lavas in Central Oregon Using Lidar Return Amplitudes: a Statistical Approach</td>
<td>Dr. Nick Deardorff</td>
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<td>Jaclyn Fishalow (Psychology)</td>
<td>Investigating Perceptions of Capabilities and Appearance as Predictors of Satisfaction with Bariatric Surgery</td>
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<td>Procedures of Evaluating a Community-based Tutoring Program</td>
<td>Dr. Crystal Machado</td>
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<td>Awinma Linda Tonka (Nursing)</td>
<td>Antenatal Care in West Africa</td>
<td>Dr. Lora Ott</td>
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<td>Lindsay Eckenrode, Thea Behm, Megan Prisk, Liza Walker, Anne Genereux, and Jaeyong Choi (Food &amp; Nutrition)</td>
<td>Factors That Affect Bariatric Patient Food Choices When Eating Out</td>
<td>Dr. Stephanie Taylor-Davis</td>
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<td>Miad Alazmi (English)</td>
<td>Culture Shock</td>
<td>Dr. Lilia Savova</td>
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<td>23</td>
<td>Ashley Bacher (English)</td>
<td>Reluctance to Participate: A Deeper Understanding of the Influences on EAL Students</td>
<td>Dr. Mary Stewart</td>
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<td>Title of Research Project</td>
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<td>Selye Lee (Criminology)</td>
<td>Perceptions of the Police among Serious Juvenile Offenders: A Developmental Perspective</td>
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<td>Kayla Zaken and Alexis Monocello (Comm Disorders)</td>
<td>RoboKind: The Efficacy of Using Social Robots in Autism Therapy</td>
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<td>Kusuma Anand (Biology)</td>
<td>The Importance of Gender and Reward Contingencies in Auditory Discrimination Tasks for the Zebra Finch</td>
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<td>Advocating for the Carroll Cabin: Archaeological Investigations at a Historic Home</td>
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<td>Karli Rogers (Biology)</td>
<td>Assessment of Brook Trout Passage Through Ambiguous Culvert Barriers in Pennsylvania Headwater Streams</td>
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<td>Adil Alsaiari (Chemistry)</td>
<td>Removal of Halides by Acid Mine Drainage Treatment Processes</td>
<td>Dr. Hao Tang</td>
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<td>Michael Cooper (Comp &amp; Lit)</td>
<td>The Jack-O-Lantern: Cultural Differences in the Fall</td>
<td>Dr. Lilia Savova</td>
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<td>“You’re not Santa!” - An Exploration of the Folklore on Belsnickel</td>
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<td>Kristen Vander Woude, Emily Skarbowski, Samantha Mikesic, and Chelsa Zimmerman (Food &amp; Nutrition)</td>
<td>Glycemic Index, Breakfast Foods, and Academic Performance</td>
<td>Dr. Stephanie Taylor-Davis</td>
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<td>Emily Skarbowski (Food &amp; Nutrition)</td>
<td>Assessing the Effectiveness of Clinical Simulation in Nutrition Students Using ADIME Scores</td>
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<td>Musical Messages: Lyrical Innuendo in Calypso Music</td>
<td>Dr. Lilia Savova</td>
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<td>Shannon Zimmerman (KHSS)</td>
<td>Healthy Behavior Patterns in English as a Second Language (ESL) Elementary Students</td>
<td>Dr. David Wachob</td>
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<td>Stephanie Bartlam (KHSS)</td>
<td>The Effects of Acute Caffeine Ingestion on Muscular Endurance and Perception of Pain and Effort in Resistance Trained Women</td>
<td>Dr. Mark Sloniger</td>
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<td>Benjamin Martin (Nursing)</td>
<td>Using Kahoot as a Teaching Strategy to Enhance Learning</td>
<td>Dr. Teresa Shellenbarger</td>
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<td>39</td>
<td>Nicole McClement (KHSS)</td>
<td>The Effects of an Acute Bout of Moderate or Vigorous Exercise on the Perception of Anxiety in College Aged Students</td>
<td>Dr. Madeline Bayles</td>
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41 Olushola Kaffo (Geography) Proposed Pilot Methodology for Identifying Indiana County Abandoned Gas Wells using Geographic Information Systems Mentor: Dr. John Benhart

42 Kendra Keuper, Jessica Keller, Taylor Simpson and Patrice Minder (Food & Nutrition) High Calorie Beverage Consumption among College Students and College Athletes Mentor: Dr. Stephanie Taylor-Davis

43 Kelley Endres (English) Introspective Participation Mentor: Dr. Michael Williamson

44 Farzaneh Jahangiri (English) How Your Cultural Manners Can Leave You Hungry Mentor: Dr. Lilia Savova

45 Zhigang Bai (English) L2 Students’ Perception of Poetry Writing Ability upon Different Prompts Mentor: Dr. David Hanauer

46 Haylee Peace (School Psychology) Concurrent Validity of the Tiered Fidelity Inventory Implementation Measure Mentor: Dr. Timothy Runge

47 Jaeyong Choi (Criminology) Media Consumption and Public Confidence In Policing Mentor: Dr. Dennis Giever

48 Hannah Williams, Matthew Vanhorn, Katelyn Labue, and Olivia Wolfe (Comm Disorders) Nuryl App: Pseudoscience of The Modern Day Mozart Effect Mentor: Dr. Lisa Hammett-Price

49 Gina Vaira (Biology) The Forgotten Ape: Exploring the Cognitive Abilities of Symphalangus Syndactylus Mentor: Dr. Paul Nealen

50 Matthew Kijowski (Criminology) College Underage Drinking: A Test of Low Self-Control and Strain Theories Mentor: Dr. Jonathan Cooper

51 Summer Reitter and Chelshea Thompson (School Psychology) SWPBIS: Exclusive Exposure Compared to Divergent Disciplinary Interventions Mentor: Dr. Timothy Runge

54 Tabitha Daley (Food & Nutrition) Relationship Between Consumption of Highly Processed Foods and Gastrointestinal Symptoms in Adults Mentor: Dr. Stephanie Taylor-Davis

55 Daniel Romanelli (Geography) Building a Geographic Information System (GIS) for the Redevelopment of Beaver County Mentor: Dr. John Benhart

56 Jessica Jenkins (English) Postpartum Practices in India Mentor: Dr. Lilia Savova

57 Heather Zonts (Nursing) Student Veterans in Higher Education: A Literature Review Mentor: Dr. Teresa Shellenbarger
59 Brittany Billand (KHSS) Perceptions about Injuries and Concussions in Division II Collegiate Athletes Mentor: Dr. David Wachob

60 Audrey Botsford (Nursing) Teaching End-of-Life Care to Undergraduate Nursing Students: An Evidence-Based Approach Mentor: Dr. Kristy Chunta

61 Nathan Harpster (Geography) High Priority Project Sites for Riparian Vegetation within Indiana County: A GIS Spatial Analysis Application Mentor: Dr. John Benhart

62 Nathan Harpster (Geography) Commercial Unmanned Aerial Systems (UAS) and Structure from Motion (SfM) Remote Sensing for Stream Classification Surveys: A Quantitative Method Comparison Mentor: Dr. Richard Hoch

64 Meshal Ibrahim (English) Marriage Ritual Tradition in Saudi Arabia Mentor: Dr. Lilia Savova

65 Wirda Ningsih (English) Sociocultural and Economic Aspects of 'Arisan' Mentor: Dr. Lilia Savova

66 Erin Janetski (Biology) Development of a Citizen Science Stream Monitoring Program for Western Pennsylvania High School Students and its Effects on Student Learning Mentor: Dr. Holly Travis

67 Elle King (English) How Language Use Impacts the Gender Gap in Iceland Mentor: Dr. Lilia Savova

68 Kiyomi Masamune (Education) Impact of Language Barriers for Young Children from Diverse Background Mentor: Dr. Frank Corbett

69 Sujata Mukherjee (Biology) RNA Interference-Based Analysis of the Tbx20 Transcription Factor in the Planarian Flatworm Mentor: Dr. Robert Major

70 Hind Alshehri (English) Difference between Saudi Arabian and American Hospitality Mentor: Dr. Lilia Savova

71 Benjamin Gressler (Biology) Modeling Landscape Connectivity and Gene Flow of Fisher (Pekania Pennanti) in Pennsylvania Mentor: Dr. Joseph Duchamp

72 Abeer Alharbi (English) Greetings in Saudi Arabia and Its Ways Mentor: Dr. Lilia Savova

73 Dana Elmquist, Matthew Frank and Mackenzie Crawford (School Psychology) Choose Your Own Path: School Crisis Response and Intervention Mentor: Dr. Courtney McLoughlin

74 Dana Elmquist (School Psychology) Social Media and Adolescents: Implications for Educators and Mental Health Providers Mentor: Dr. Courtney McLoughlin
Cassie Smolic, Erin Smucker, Farnaz Sabetpour, and Katheryn Willey (Food & Nutrition) Calcium Consumption and the Female College Athlete: Non-Dairy vs Dairy Calcium-Rich Sources Mentor: Dr. Stephanie Taylor-Davis

Matthew Ellison (KHSS) The Feasibility of Using Standing Desks to Increase On-Task Behavior in Elementary School Students Mentor: Dr. David Wachob

Vindi Kaldina (English) Death in Tana Toraja: How the Torajans' Funeral Rituals Reflect Their Beliefs and Values Mentor: Dr. Lilia Savova

Brooke Rountree (Geography) Land Use Index Maps to Assist in Reviving a Rapidly Aging Population Mentor: Dr. John Benhart

Rebecca Gay-Gregory (Nursing) Progressive Supranuclear Palsy Mentor: Dr. Kristy Chunta

Cody Dunmire (English) The Loss of Innocence in the JRPG Mentor: Dr. Michael Williamson

Elisabeth Smith (Biology) Effects of the Antihistamine Fexofenadine on Body Fat, Glucose and Body Weight: Impact of Dietary Fat Type and Pre-Drug Run-in Period Mentor: Dr. Daniel Widzowski

Mackenzie Wargo (Nursing) Neonatal Abstinence Syndrome Mentor: Dr. Kristy Chunta

Jennifer Graves (Mentor: Dr. David Janetski) Native Brook Trout Responses to Interacting Stressors in a Western Pennsylvania Watershed

Terrance Hudson (Prof Studies) Why Teach? What Motivates African American Males to Choose Careers in Teaching? Mentor: Dr. Robert Millward

GRADUATE/UNDERGRADUATE JURIED ART EXHIBIT
April 4-5th
Susquehanna Room

This exhibition features artworks created by a select group of graduate and undergraduate Art majors. The artworks were juried by faculty members and represent the breadth of studio research conducted during the 2016/17 academic year.