WELCOME TO CELEBRATION OF SCHOLARSHIP 2018

From our Interim President...

The creation of new knowledge and artistic production are hallmarks of a great university. Celebration of Scholarship presents Lock Haven University as a distinguished community of scholars and showcases the contributions of faculty and students to the arts, letters, social sciences, sciences, and a diversity of professions.

Research and creative production are future oriented, always inclining toward the next meaningful question, the next innovation, cutting-edge technologies, and the excitement of discovery. They are anchored in mastery of the disciplines and interdisciplinary practice, but always contest the status quo. Scholarship and creative production drive our curriculum and animate our faculty. And they are both the soil and seed of the life-long learning that is characteristic of our graduates. Scholarship is thus an integral aspect of experiential learning across the spectrum of human experience – from beauty to nanoparticles, from cognition to recreation, from clinical practice to political theory.

Scholarship and creative production are also inherently communal; their results are for disseminating, questioning, revising, and enjoying. Through the iterative research and creative process, students learn that failure and success are shared in communities of learning and are equally aspects of discovery and creation. This community of scholarship is realized hundreds of times a day, in classrooms and labs, in experiential learning sites beyond the classroom, in study abroad trips, in online discussions, and over pizza at informal meetings. Celebration of Scholarship in this context is a day set aside to recognize, and to celebrate, that the ordinary work engaged in by faculty and students on ordinary days is in fact extraordinary and transformative.

Donna F. Wilson, PhD
Interim President
From our Faculty...

This is LHU’s twelfth Celebration of Scholarship, and on behalf of the LHU faculty, I am honored to welcome everyone to the day’s events. Every year since the first Celebration, when I served on the committee that created the Celebration and delighted in its results, I have volunteered to work with my colleagues on the next for one reason: this event is all about student achievement. I believe I speak for all faculty who participate when I say we do it because we want our students to be able to showcase their work in ways that will help them take their knowledge, skills, research, talents, ideas, and creativity out into the wider world and perhaps make it a better place. For any teacher, there is no greater success or joy than seeing students shine, and on this day, that light is all around us. Please join us in celebrating student success by attending as many poster sessions, performances, exhibits, presentations, activities, and demonstrations as you can fit into this wonderful day.

-Dana Washington, English department

THANK YOU FOR BEING PART OF COS 2018!

I am honored to have enjoyed coordinating the organization of this event for a second year. It is truly humbling to receive the outpouring support from every corner of our institution. As a result, we are now ready to witness our wonderful students sharing their research and creativity, and preparing themselves for future achievements. Thank you indeed, dear students, for you are the beating heart of this event! Kudos to all sponsors for nurturing scholarly ventures for our students.

Special thanks to our Interim President, Provost and Deans, and their respective offices, for having been so supportive every step of the way.

There are several people that we all must thank: Prof. Dana Washington, always ready to advise, help, and take care of all editing needs; Prof. Jason Bronner, who has established a competition among his students to produce the COS program cover; Mr. Vance Godfrey, designer of the superb COS 2018 program cover and winner of the competition; and Ms. Sierra Laughead, our student assistant, who, with her creativity, skills, and tireless dedication has secured the success of our event.

Enrique Herrera, 2018 COS Coordinator
# SCHEDULE OF EVENTS

## POSTER SESSIONS

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8:30-10:00</td>
<td>Biology, Chemistry, Clinical Mental Counseling, Health Science, Mathematics, Nanotechnology, Recreation Management</td>
<td>Thomas Field House</td>
</tr>
<tr>
<td>10:30-12:00</td>
<td>Anthropology, Business Administration, Communication, Computer Science, Criminal Justice, Geology, HOPE Center, Spanish, Women Studies</td>
<td>Thomas Field House</td>
</tr>
<tr>
<td>12:30-2:00</td>
<td>History, Psychology, Social Work, Sociology, Sports Studies</td>
<td>Thomas Field House</td>
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## PRESENTATIONS

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8:00-12:00</td>
<td>Environmental Studies Capstone Presentations</td>
<td>Greenberg Auditorium</td>
</tr>
<tr>
<td>8:30-11:30</td>
<td>Global Honors Program Capstone Presentations</td>
<td>Robinson Hall of Flags</td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>Dean's Research Colloquium</td>
<td>Durrwachter Ballroom</td>
</tr>
<tr>
<td>10:00-11:30</td>
<td>Back to (Our) Nature: Analysis of Classical and Contemporary Literature</td>
<td>PUB Meeting Room 2</td>
</tr>
<tr>
<td>10:00-12:00</td>
<td>Popular Traditions and Celebrations in Latin America</td>
<td>Raub 407</td>
</tr>
<tr>
<td>10:30-12:00</td>
<td>The 'America First' Agenda versus Globalization</td>
<td>Raub 212</td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>En torno a la literatura y cultura hispanoamericana</td>
<td>Raub 421</td>
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<tr>
<td>11:00-12:00</td>
<td>Sports and Cultural Values</td>
<td>Durrwachter Ballroom</td>
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<tr>
<td>11:00-12:00</td>
<td>Autism, Help Your Students Succeed!</td>
<td>Raub 210</td>
</tr>
<tr>
<td>12:30-2:00</td>
<td>Components of Civil Rights Movements</td>
<td>Greenberg Auditorium</td>
</tr>
<tr>
<td>12:30-2:00</td>
<td>How Knowledge of Hispanic Culture Can Assist in Solving Issues in the Community</td>
<td>Raub 422</td>
</tr>
<tr>
<td>12:30-2:30</td>
<td>Women and Gender Studies Minor Capstone Projects</td>
<td>Raub 210</td>
</tr>
<tr>
<td>1:30-3:30</td>
<td>Must-See Destinations in Latin America and its Cultural Significance</td>
<td>Raub 421</td>
</tr>
<tr>
<td>2:00-4:30</td>
<td>Communication Analysis Presentations</td>
<td>PUB Meeting Room 2</td>
</tr>
<tr>
<td>2:00-5:00</td>
<td>Nano Engineering and Modifications of Surfaces Towards Sensors</td>
<td>ECSC 110</td>
</tr>
<tr>
<td>4:45-6:15</td>
<td>Oral Interpretation of Drama</td>
<td>PUB MPR</td>
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<tr>
<td>5:30-8:30</td>
<td>Family Fun Night</td>
<td>Rogers MPR</td>
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## PHI KAPPA PHI SYMPOSIUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>2:00-5:00</td>
<td>Symposium</td>
<td>Robinson Hall of Flags</td>
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</table>

## ART AND HUMANITIES

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>9:00-4:00</td>
<td>Designs to Raise Awareness of Human Trafficking in Pennsylvania</td>
<td>PUB MPR</td>
</tr>
<tr>
<td>9:00-4:00</td>
<td>Building Bridges Selfie Mural</td>
<td>PUB MPR</td>
</tr>
<tr>
<td>2:30-4:00</td>
<td>Fiction Reading</td>
<td>PUB MPR</td>
</tr>
<tr>
<td>6:30-7:45</td>
<td><em>The Crucible</em>, Live!</td>
<td>PUB MPR</td>
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</tbody>
</table>
POSTER PRESENTATIONS
All poster presentations will be held in the Thomas Field House

8:30 - 10:00 POSTER PRESENTATIONS

BIOLOGY

Jennifer Bandura
Independent Study Research
Does Reduction of USP5 Promote Extra Cell Division?
  Zachery Stephens
Effects of Nonylphenol on Fertility of Drosophila Melanogaster
  Courtney Capper, Jennifer Bandura
Gene Interaction Between Usp5 and Cyclin E?
  José Moreno-López

Heather Bechtold
Bechtold Lab Research Project Presentations
  Heather Bechtold, Adam Gilles, Chuck Keeports, Steve Seiler, Brittany Sprout, Nathan Welker
Effects of Firing Range Projectiles on Marsh Creek Water Quality, Howard, PA
  Cody Iannozzi, Heather Bechtold
The Effect of Invasive Worms on Planet Growth and Soil Nutrient Availability
  Mary Arnold, Heather Bechtold, Ashlea Ghaner

Jennifer Deitloff
Herpetology Research
Assessment of the Density, Spatial Distribution, and Movement Patterns of Plethodon cinereus (Eastern Red-Backed Salamander) Using Spatial Capture-Recapture
  Teah Evers
Comparing Population and Sex Differences in Head Shape for Two Populations of Plethodon cinereus (Red-Backed Salamanders) in Pennsylvania
  Eva Miller
Comparison of Foot Morphology in *Plethodon ventralis* and *Plethodon websteri* using Geometric Morphology
John Loomis
Territorial Behavior in *Plethodon cinereus* (Red-Backed Salamander) in Seven Populations from Pennsylvania
Rhiannon McGlone

**Carina Howell**

**Independent Student Research Integrated in a Laboratory Course: Chick Teratogenesis in Developmental Biology**
Effects of Caffeine on the Development of *Gallus gallus domesticus*
Naomi Kriner
Teratogenic Effects of Ibuprofen on Chicken Embryo Growth
Chelsea Allen

**Independent Research in Biology**
Effects of gabapentin on the development of *Gallus gallus domesticus*
Courtney Capper
Teratogenic Effects of Gabapentin on Embryonic *Gallus gallus domesticus*
Taylor Knarr
Teratogenic Effects of Valproic Acid on Osteogenesis in Embryonic *Gallus gallus* Development
Jessie Anderson

**Shonah Hunter**

**Independent Study Posters**
Goat Herd Management Practices
Amerah Z. Abouzaki

**CHEMISTRY**

**Laura Lee**

**Chemistry Undergraduate Research**
Activities for Teaching Names and Formulas of Simple Ionic Compounds
Laura Lee, Hannah Ostrander
Analysis of Fats and Oils
Kurt Rublein, Toby Walizer
The Detection of Benzene in Soft Drinks
Stephen Coval, Brad Lipka

--- 5 ---
Development of a Novel Detergent-Free Lipase Assay
   Zachary Knepp, Kyle Root
Further Quantum Mechanical Calculations Using UV-VIS Data
   Isabella Bieker, Brent May
Introduction of Infrared Spectroscopy to Health Care Students in Organic Chemistry: Three Component Analysis of Ointment Bases by FTIR
   Kayla Elliott, Martin Maresch
Mixed Melting Point Depression Experiments Measured via Raspberry Pi
   Sam Hogan, Brent May
Non-Sulfide Five Ion Qualitative Scheme
   Sam Hogan, Brent May, Kurt Rublein
Photometric Analysis of Acid-Base Titrations
   Kayla Elliott, Brent May
Purification of Phospholipase D Using a Perfluoroocyrl Derivatized Wide-Pore Silica Gel
   Dana Laulis, Kyle Root
Water Quality Analysis of Local Waterways
   Emily Hurlburt, Kurt Rublein

CLINICAL MENTAL COUNSELING

Nicole Arcuri
   Intrinsic Motivation for Second Career Students
   Intrinsic Motivation for Second Career Students
   June Roberts

Stephen Gitonga
   Quest for Quality Mental Health
   Childhood Homelessness
   Tiara Webb
   The Importance of Self-Care in the Helping Professions
   Stephen Gitonga, Laura Knaur
   The Potential Mental Health Disorders in Victims of Mass Trauma
   Stephen Gitonga, June Roberts
HEALTH SCIENCE

Fay Cook

Death Education: Death Customs in Various Cultures
Buddhist Death Customs
  Julianna Bodek, Mckenley Shreckengast, Gabrielle Stick
Death and Dying Within the Jewish Community
  Julia Locy
Death Customs Poster
  Ashlyn Ventris
Death Education
  Caitlin Sworin
Hispanic
  Samantha Savage
Japanese Heritage
  Mitchell Croall, Michael Crotton, Sean Stewart
Jewish Death Customs
  Katarina Pletcher, Olivia Reiver
Mexican Death Customs
  Olivia Gross, Kaila Hunter, Hannah Zerbe
Native Americans
  Logan Ault, Logan Boyer

Introduction to Disease: Various Disease Topics
Alzheimer's Disease
  Sarah Conroy, Jenna Gutekunst, Shannon Helman,
  Sierra Laughead
Alzheimer's Disease
  Cameron Cochran, Katie McClure, Ashley Roeder
Bone Fractures
  Michaela Pesta, Brandon Zwick
Bone Fractures
  Hailey Bortner, Riley Flemmens, Erika Landis
Cerebral Palsy
  Kate Hooper, Bernice Kpadjiba, Alexander Lavdas
Cerebral Palsy
  Gage Fischer, Connor Rigg, Collin Wesley
Cold vs. Flu
  Kori Deibert, Dallis Dillon, Samantha Himes
Cold vs. Flu
  Rachel Anderson, Yvonne Laurito, Demetri Probst
Cystic Fibrosis
   Taylor Kirkendall, Hannah Wagaman Kiersten Whitebread
Cystic Fibrosis
   Cassandra Nading, Gabriella Pezzella, Taylor Wolfrom
Huntington's Disease
   Marissa Faranda, Rachel Robenolt, Shamyrah Woleslagle
Lyme's Disease
   Jordan Crispeno, Juliana Gindlesperger, Taylor Plouse
Lyme's Disease
   Catherine Eccker, Shirell Harrison, Andrew Petruzzi
Mitral Valve Prolapse
   Kayla Gee, Isaiah Hahn, Evannah Phan
Prostate Cancer
   Camden Cook, Brian Flatter, Alec Mapoy

Beth McMahon

**Independent Studies in Health Science**

Domestic Violence Fatality Review Teams Enact Change Within Affected Communities.
   Kelsey Leach, Catherine Mohn
Vivitrol Court Review
   Morgan Capobianco

**Master in Health Science**

Opioids and the Innocent Victim
   Heather Riefer
The Opioid Crisis: An Epidemiological Study of Prescription Drug Abuse
   Kelly Geise
The Opioid Epidemic: Children and Youth
   Heather Riefer

Cheryl Patton

**Healthcare Organizational Behavior and Human Resource Management**

Communication: The Key to Success in Healthcare
   Angelina Duda
Physician Burnout: Stress Management in Healthcare
   Kelly Geise
Jody Russell

Evaluation Techniques II: Clinical Case Studies

A Case of Brachial Plexus Neuropraxia Leading to Prolonged Muscle Weakness in a College Wrestler
  Chelsea Rieppel
Dual Knee Injury of a Soccer Player
  Susan Janfrancisco
Female Collegiate Soccer Player with a Fractured Mandible
  Morgan Euston
Galeazzi Fracture in a Young Football Player
  Jeremy Taylor
Heat Illness in a College Athlete
  Justen Grimes
The Incidence of a Bony Bankart Lesion as a Result of Anterior Shoulder Instability: A Case Report
  Kayla Houle
PVC's in Adolescent Male Athlete: A Case Study
  Dustin Carnell
What's the Catch: Articular Cartilage
  Tucker Devilbiss
When the Fascia Falls
  Lindsey Dry

Steve Streator

ATTR 300 General Medical Conditions in Athletics Patient Education Posters

Are Sports Weighing You Down?
  Susan Janfrancisco
Breath of Fresh Air
  Dustin Carnell
Can I Still Play Sports with Type 1 Diabetes?
  Chelsea Rieppel
Coughing Up Blood? A Reason for Concern
  Justen Grimes
Depression: An Invisible Illness
  Morgan Euston
The Disease That People Deny
  Lindsey Dry
Super Bug: MRSA
  Tucker Devilbiss
A Three-Pronged Attack
  Kayla Houle

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Ticked off About Lyme Disease
Jeremy Taylor

Amy Way
The Health of Harmon's, Jamaica Over a Three Year Span
Troy Quail
Prevalence and Possible Risk Factors of Hypertension in Harmon's, Jamaica
Daniel McGonigal

MATHEMATICS

Jacinth Maynard
Lottery: Mega Millions Simulation
Is there a correlation between the passing rates of High School Advanced Placement Exam and the School's System Finance?
Kimberly Garlock, Sadie Strausburg, Michael Tangren
Lottery
Kimberly Garlock, Sadie Strausburg

NANOTECHNOLOGY

Indrajith Senevirathne
Nano Engineering and Modification of Surfaces Towards Sensors
Active Self Assembled Monolayers investigated via Atomic Force Microscopy
Chadd Miller
Imaging Techniques and Elemental Analysis of Biological Specimens by Scanning Electron Microscopy (SEM) and Energy Dispersive X-Ray Spectroscopy (EDS) – 1
Sylviana Hanna
Magnetron Sputtering of Gold Thin Films Under Ambient Conditions and Manipulation of Deposition
Tyler Adams
Pristine Mica: Cleaving Under Organic Solvents and Variable Temperature Au Sputter Deposition
Brian Evans
RECREATION MANAGEMENT

Kim Batty

Student Benefits and Motivations for Attending Lock Haven University
Sponsored Clubs
An Evaluation of the Benefits and Motivations Students Have to Join LHU
Sponsored Clubs
Jessica Burd, Daniel Hackmeister, Allison Spielman, Blake Walker

Julie Lammel

Therapeutic Recreation - What, Why and How!
Foundations of Therapeutic Recreation - Video Project. Students in RECR204

Brian Wilt

A Comparison of Total Strength Training Time to Total Training Time: A Work
to Rest Analysis of Strength Training Programs for Athletes; Part VI
Daniel Caprio, Gabriel Gensimore, Alyn Fuchs, Leah Hartzell,
Justin Hoffman, Rebecca Leuthold, Sam Miller, Mason Monahan,
Joel Watts
10:30 - 12:00 POSTER PRESENTATIONS
All poster presentations will be held in the Thomas Field House

ANTHROPOLOGY

Tim Baylor

Cultural/Historical Depictions of North American Native American Tribes
The Cheyenne People
   Brianna Coval
Chiricahua
   Kai Coolbaugh
Choctaw Nation
   Krystjana Bruce
The Coeur d'Alene Tribe
   Hannah Simon
Crow Nation
   Ian Schiefer
The Erie People
   Patrick Driscoll
The Hopi Tribe
   Danielle Wolfel
Lenape: The Delaware Tribe
   Kasmira Zechman
The Meskwaki (Fox) Nation
   John Hartnett
Native American Abenaki Tribe
   Sarah Belinda
Onondaga Nation: People of the Hills
   Lindsey Walsh
The Paiute Tribe
   Cameron Benchouk
Seneca Tribe
   Nathaniel Quick
Tuscarora Indians
   Norman Houser
BUSINESS ADMINISTRATION

Marlene Jensen

Marketing Blogs
- Essentials to Wellness
  Brooke Houseal
- Marketing a Beauty Guru
  Kennedy Parker
- Marketing a Cosmetics Guru
  Karlie Fryer
- Marketing a Fashion/Style Guru
  Brooke Snyder Marketing LHU Christian Student Fellowship
  Dephvin Housman
- Marketing Dimplez4Dayz Non-profit Organization
  Danielle Brown
- Marketing Influencers Guru
  Tamara Taylor
- Marketing Philadelphia Sports
  John Banes
- Marketing Tasty Travels
  Erin Engel
- Marketing the New York Yankees
  Jarett Priester

Cori Myers

Applying Strategic Management to Real World Organizations
- Citigroup, Inc.
  Dylan Hamm, Haley Priester, Sarah Reppert, Christopher Sherno, Branden Winner
- Enterprise
  Jasmine Breslin, Mitchell Coakley, Michele Enck, Mercedes Kenyon, Kayleen Sutton, Greg Weidner
- GAP
  Fritz Cadet, Brandy Knepp, Sarah Pixley, Brittni Smith, Brooke Snyder
- Kohl's
  Kylie Garrett, Kyle Hammond, Brittany Lannan, Irene Lascarides, Darrin Masorti, Emmah Walters
- Norfolk Southern
  Valerie Cesare, Alex Shafer, Katelyn Siska, Cayden Stover, Katerina Van Bramer

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Solar World
Bryce M. Bason, Kevin Campbell, Lia Hamm, Kaylee Hill, Michaela McKinney

TripAdvisor
Robert Burton, Joshua Cenderelli, Rashawn Cunningham, Madison Eberly, Emily Hays, Zachary Moeller

YUM! Brands
Alexandra Noldy, Charles Rogers, Chelsea Shelander, Tyler Shumaker, Jonathon Stolz

CLINICAL MENTAL COUNSELING

Stephen Gitonga

Quest for Quality Mental Health
Preventive Strategies for Enhanced Mental Health
Stephen Gitonga
Screening Tool for Education and Employment Readiness (STEER)
Christina Davis
Twins: One of a Kind or One of a Pair?
Stephen Gitonga, Georgette Gunther

COMMUNICATION

Karen Kline

Cultural Studies Research Examining Media Representations
An Analysis of Cops: A Study of Racial and Gender Stereotypes
Roxanne Aretta
Do Blondes Have More Fun?: A Qualitative Analysis of Blonde Female Characters in Top-Grossing Horror Films
Gina Spinner, Sam Wilson
Disability on Display
Kylie Bowes, Jack Dawson
Eminem and the Portrayal of African Americans
Lucas Lenze
Fat isn't Funny: Representation of Overweight People in 2017’s Top-Grossing Comedy Films
Tanner Meeker, Kiara Tinnin

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Grace & Frankie: Gender & F....Sexuality: A Look at How Age, Gender, and Sexuality Intersect in the Netflix Original Series
    Jessica Tressa
Perception of Women in Country Music
    Dylan Kranzel
The Portrayal of Male and Female Runners in Runner’s World Magazine
    Erin Leiby, Aleshia Robinson
Portrayal of Women in Rap
    Erin Bolan, James Webb
A Quantitative Analysis of Law & Order: Special Victims Unit and Its Reflection of Real Life.
    Robyn Andrews, Myles Martin
Race, Gender, and Social Class in The Night Manager
    Meredith Brown, Lisa Hallock
Super Bowl 2018 Commercial Comparison
    Kylee Doyle
Women's Portrayal in American Dad
    Dephvin Housman, James Rohrer

COMPUTER SCIENCE

Jeyaprakash Chelladurai
L-system and its Applications
    Biologically-Inspired Fractals in JavaScript
    Caroline Rublein

Mark Jones
Computer Science Senior Capstone
    LHU Global Honors Program Site
    Tylor Lenskold, Phillip Leonard, Mitchel Myers, Conner Williams
    LHU I.T. Ticketing System Upgrade
    Scott Laidlaw, Luke Vandament, James Young
    The Teaching Cube
    Assunta DeSanto, Matthew Holt, Iven Morrow, Nathan Ulmer
    Visual Traceroute Map
    Taylor Sember, Brandon Singer, Joshua Starner
    Weather Device Data Mapping
    Jacob Barrett, Avery McCown, Sean Robert

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Krish Pillai

**Computing PI using the Monte Carlo Approach**
Computing Pi using the Monte Carlo Approach
Assunta DeSanto, Krish Pillai

**CRIMINAL JUSTICE**

Edward Bowman
Prevalence of Mental Health Issues in an Offender Population: A Comparison of Jail and Prison Inmates
Lybi Westover

Katie Ely

**Independent Study Projects**
Readings in Criminal Justice
Meagan Taranto
Women in Criminal Justice
Amanda Loar

Greg Koehle

**Crime Prevention Through Environmental Design**
Criminal Prevention Through Environmental Design
Kevin Butts, Jacob Hohman, Jeremy Kyc, Derek Lupian, Bradley Peck, Shane Salinas

**GEOLOGY**

Michael Cullin

**Common Misconceptions in Science**
Common Biological Misconceptions
Allison Schlorff
Common Misconceptions in Biology
Jessica Strouse
Misconceptions in Physics
Ivo Klaric
Mohamed Khalequzzaman

Water and Environmental Issues in PA

Analysis of McElhattan Reservoir and Surrounding Farmland
Spencer Mill

Application of Gpr, Geospatial and Geochemical Techniques to Determine Sediment Origin and Accumulation Patterns in Keller Reservoir, Clinton County, PA
Matthew Bell, Ahmed Lachhab, Michael Sharer, Scott Wolf

Clast Size Comparison and Mineralogical Analysis of Castanea Boulder Field
Michael Menafro

Marcellus Shale Drilling Process in Pennsylvania and its Effects on the Environment
Frank Onunga

The Morphometric Relationship of Clinton County using GIS
Carl Burke

Red Hill Outcrop Analysis
Russell Lewis

Sediment Discharge Analysis for Harvey Run and West Karmmerdiner Streams
Anson Weidner

Seismic Refraction at the Ohl Reservoir
Dana Hoblitzell

Water Quality Changes of Bald Eagle Creek
Patrick Miller

Water Quality Analysis of North Fork and Sandy Run Sub-Watersheds
Peyton MacNeill

HOPE CENTER

Holle Canatella

SHPGS Data
Jessica King
SPANISH

Enrique Herrera

Hispanic Culture in Contemporary US
Chicano Literature
  Bettina Cherry, Sarah Snyder
Hispanic Influence in the Visual Arts of the United States
  Kayla Bartlebaugh, Caroline Hartzel
Hispanic Influence on American Food
  Dylan Tuohey, Cierra Young
Hispanic Influence on Movies in the United States
  Sierra Laughead, Timothy Martin
Hispanic Music in The United States
  Nicole Chappelle, Kelley Horm, Lucas Nelson
Major Hispanic Traditions and Celebrations in the US
  Courtney Grimm, Joshua Semanco
Nyorican Literature in America
  Ellora Figured, Mark Matthews

WOMEN AND GENDER STUDIES

Holle Canatella

National and Global Feminist Activism
AAUW
  Morgan Smith
Black Girls Rock
  Kaylee Myers
The Breathe Network
  Cheyenne Brickley
Equality Now
  Brooke Wilk
Feminist Majority Foundation
  Allyson Meeker
The Gay & Lesbian Alliance Against Defamation
  Olivia Hall
Girls Who Code
  Briana Watson
INCITE!
  Cole Wirt
It Gets Better Project
  Kayla Bartlebaugh
MADRE
  Dejah Watson
Men Can Stop Rape
  Myrielle Pierre
Mothers2Mothers
  Sarah Gower
National Coalition against Domestic Violence
  Rachel Jackson
National Indigenous Women's Resource Center
  Christina Williams
National Women’s Law Center
  Danae Johnson
NOW
  Hannah Thomas
PFLAG
  Shelby Craig
Prajwala
  Lauren Fenner
RAINN (Rape, Abuse, and Incest National Network)
  Madeleine Gower
The United Nations' Organization for Gender Equality and the Empowerment of Women
  Bella Huber
Women for Women International
  Ellora Figured
Women's March
  Olivia Reiver
Women's Sports Foundation
  Amanda Loar
12:30 – 2:00 POSTER PRESENTATIONS
All poster presentations will be held in the Thomas Field House

CLINICAL MENTAL HEALTH COUNSELING

Kristin Vincenzes

Graduate Research Projects

Autism Spectrum Disorder: Counseling Approaches from a Positive Psychology Perspective
   Jessica Walton
Empowering Sexual Assault Survivors: Using an Ecological Model to Understand Mental Health and Counseling Needs
   Robyn Storey, Jessica Walton
Support Groups for Individuals in Recovery
   Lora Casteline

HISTORY

Laird Jones

The Modern Islamic World

Changing Role of Women in Modern Islam
   Jonathan Force
Education in Islamic Countries
   Norman Houser
Globalization of the Kashmiri Conflict from 1993-1999
   Michaela Gawrysz
Islamic Architecture
   Nathaniel Quick
Modern Islamic Warfare Tactics
   John Brungard
Slavery and the Ottoman Empire
   Kaila Coolbaugh
Views Changing Towards Veiling in Islamic Society
   Sarah Belinda
Laxman Satya

**Korea and Kashmir in Historical Perspective**

Despite Economic Prosperity, Democracy Never Took Strong Roots in South Korea: The Case of Park Chung Hee

Morgan Smith

Globalization of the Kashmiri Conflict from 1993-1999

Michaela Gawryś


Jeffrey D’Ambola

JKLF (Jammu-Kashmir Liberation Front) and the Exodus of Pandits (1989-1990) from Kashmir Valley

Derek Danneker

Kim Dae Jung’s Presidency in South Korea

Marlene Yi

Sheikh Abdullah in Kashmiri Politics: From Relevance to Irrelevance

McKenna Walter

Syngman Rhee and Kim Il Sung: Why is Kim a Hero and Rhee a Renegade?

Thomas Bates

Treaty of Lahore (March 9, 1846) and Treaty of Amritsar (March 16, 1846): British Skullduggery and Creation of the State of Jammu and Kashmir

Luke Mealand

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**PSYCHOLOGY**

**Susan Boland**

First Impressions of Job Candidate Based on Lipstick Color

Jordyn Glick

**Lynn Bruner**

Tackling Test Anxiety in First-Year College Students: A Mindfulness Approach

Cayenne Morinville

**Cheryl Newburg**

**Psychology Internships**

Fall 2017 Internship at Clinton County Women's Center

Siobhan Mobley

Fall 2017 Internship at Clinton County Women's Center

Lydia Runkle
Fall 2017 internship at Community Action Agency
   Rachel Jackson
Spring 2018 Internship at Clinton County Children & Youth
   Melinda Funk
Spring 2018 Internship at Clinton County Children & Youth
   Rachael Metzinger
Summer 2017 internship at Clinton County Women’s Center
   Jennifer Vaow

Independent Studies
Fall 2017 Independent Study on Treatment for Substance Abuse and Combat-Related PTSD
   Kaitlynn Timko

Andrew Talbot
Psychological Research from PSYC409 and Independent Study Projects
   Attention Restoration: The Power of Nature vs. Urban Scenes
      Christine Offutt, Jennifer Vaow
   Effects of Personality and Stress on Food Choice
      Hannah Davy, Christine Offutt
   It's Getting Hot in Here: Let's Be Friends!
      Kaylee English, Katherine Kauffman, Benjamin Krentler, Brooke Yeager
   Social Interventions for Autism
      Katelyn Costanza, Erin Kennedy
   Study Card Method: Influence on Introduction to Psychology Exam Scores
      Abigail Boyer, Christine Offutt
   Turns Out We All Do It: Judging Others by Their Covers
      Abigail Boyer, Brianna Coval, Michael Schaeffer

SOCIAL WORK

Steven Granich
Social Policy Issues
   Adoption Policy
      Sarah Harnishfeger
   The Americans with Disabilities Act
      Lauren Gaczhias
Child Abuse and Neglect  
  Claire Koons
Child Welfare  
  Sarah Harnishfeger
Child Welfare  
  Saleema Singletary
Children and Youth - Defining the Problem  
  MaryJo Sibet
Children and Youth - Head Start  
  Meghan Green
Children and Youth Legislation - Child Abuse Prevention and Treatment Act  
  David McCurdy
Co-occurring Disorders- Defining the Problem  
  Alexandra Steen
Disability Protections at Federal and State Levels  
  Jessica Gentzyel
Elder Abuse  
  Mary E. Ruggiero, Steven Tyson
Federal Level Policy on Opioids  
  Bryana Irvin
Federal Veteran Policy  
  Katie Merritt
Foster Care  
  Courtney Harris
Human Trafficking  
  Andrea Johnson
Human Trafficking in Bangladesh  
  Elizabeth McCray
Human Trafficking in Washington D.C.  
  Sianni Cubbage
Juvenile Justice  
  Carlos Balkcom
Juvenile Justice  
  Mara Holsinger
Juvenile Justice System  
  Zamier Parker
Mental Health  
  Kayla Henry
Mental Health in Schools  
  Sara Kyler
Pennsylvania Child Custody
   Chyanna Woods
Pennsylvania State WIC Regulations
   Cheyenne Smolko
Poster Presentation
   Rachael Muir
The problem with Substance Abuse
   Kirstin Josey
Problems in Mental Health
   Rebecca Baker
Problems WIC Amends
   Alanah Pavlik
Problems with Child Custody
   Hanna Fitch
Race, Crime, Juvenile Justice
   Breasia McQueen
State Legislation on Opiods
   Cassandra Inzana
Substance Abuse: The Problem
   Caitlyn Shepps
Substance Abuse Treatment
   Margaret O'Neill
Temporary Assistance for Needy Families Federal Regulations
   Melanie Tunaitis
Veterans and Mental Health
   Eric Russell
Veterans Mental Health Policy
   Katie Merritt
WIC Legislation
   Kayla Ritchey

Debbie Mills

Rural Community Analysis

   Bellefonte, PA
   Cassandra Inzana, Breasia McQueen, Rachael Muir, Cheyenne Smolko
Community Analysis - Mill Hall
   Carlos Balkcom, Hanna Fitch, Mar Holsinger, David McCurdy
Coudersport, Pennsylvania
   Rebecca Baker, Andrea Johnson, Saleema Singletary
Hughesville
   Courtney Harris, Caitlyn Shepps, MaryJo Sibeto, Melanie Tunaitis
Jersey Shore
   Eric Flick, Lauren Gaczhias, Margaret O'Neill
Lock Haven, PA
   Sarah Harnishfeger, Zamier Parker, Mary Ruggiero, Steven Tyson
Muncy, PA
   Bryana Irvin, Claire Koons, Elizabeth McCray, Kayla Ritchey
Port Matilda Community Assessment
   Sarah Cowder, Jessica Gentzyel, Meghan Green, Katie Merritt
Renovo, PA
   Sianni Cubbage, Kayla Henry, Kirstin Josey, Sara Kyler
Rush Township
   Alanah Pavlik, Alexandra Steen, Chyanna Woods

Sociology

Timothy Baylor

Sociology Poster Projects
   Interracial Marriage as Deviant
      Danielle Wolfel

Sports Studies

Brian Foster

Student-Athlete Mental Health Management via Smartphone Meditation Application
      Sam Dotterer
PRESENTATIONS

COMMUNICATION
2:00 – 4:30
PUB Meeting Room 2
Lisa Riede and Helen Prien

Communication Analysis Presentations
Zen and the Art of 1-800-273-8255
Danielle Arocho, Rachael Dunlap
Zen and the Art of Apologizing to the Public: Logan Paul
Tanner Meeker, Gina Spinner
Zen and the Art of Basketball
Lucas Lenze, Gregory Thompson
Zen and The Art of Gun Control
Robyn Andrews, Samantha Paules
Zen and the Art of Ich Bin ein Berliner
Jamison Bond, Kayla Schneider
Zen and the Art of Media versus Video Games
Richard Kessinger, Timothy Martin
Zen and the Art of SNL: An Analysis of Political Sketch Comedy
Meredith Brown, Lisa Hallock

4:45-6:15
PUB Multi-Purpose Room
Lisa Riede and Helen Prien

Oral Interpretation of Drama
An Oral Interpretation of Drama: "The Ketchup Bottle"
Robyn M. Andrews
An Oral Interpretation of Drama: Our Town
Danielle Arocho
An Oral Interpretation of Drama: “While the Auto Waits”
Gina Spinner
An Oral Interpretation of Drama: “Heart of Hearing”
Kayla M. Schneider
An Oral Interpretation of Drama Title: “Papa’s Got a Brand Excuse”
Myles Martin
An Oral Interpretation of Drama: "Mona Lisa's Smile"
Meredith C. Brown
An Oral Interpretation of Drama: "1-800"
Rachael Dunlap
An Oral Interpretation of Drama: “Downward Spiral”
Lucas Lenze

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DEAN’S RESEARCH COLLOQUIUM
10:00 – 11:00
Kyoko Amano
Short Term Study Abroad in the Dominican Republic: A Transformational Experience
Jane Penman

ECONOMICS
10:30 – 12:00
Rubén Berrios
The “America First” Agenda versus Globalization
America First Agenda and NAFTA
Tyler Shumaker
Globalization vs. America First Campaign
Andres Medina-Munoz
How Does the “America First” Agenda Square with Free Trade?
Miranda Brown
International Trade and Finance
Trent Kennedy
Is China Playing Fair?
Dallas Kephart
Offshoring and the Trump Administration
Trent Kennedy, Anthony Montaro
Price Support and Subsidies
Oliver Brook
Will Protectionist Measures Affect the Economy?
Cole Pohjala

EDUCATION - ELEMENTARY/MIDDLE LEVEL- GRADES 4-8
5:00 – 8:30
Priya Poehner
Family Fun Night
Allison Barnes, Madison Davis, Kolby Dehaas, Makenzie Farley, Jessica Fuschetti, Annie Jones, Keith McCabe, Alison Schlorff, Makenzie Sullivan, Melissa Velardi, Christian Wieand
EDUCATION - HEALTH AND PHYSICAL EDUCATION
11:00 – 12:00
Durrwachter Ballroom
Cengiz Yakut
Sports and Cultural Values
The roles of cultural values and social conditions behind American international sports success.
Gage Bender, Christian Bermudez, Shafiq Blake
Why ordinary Americans despise soccer, and is anti-soccer lobby real?
Cengiz Yakut

EDUCATION – SPECIAL EDUCATION
11:00 – 12:00
Raub 210
Jonathon Stout
Autism, Help Your Students Succeed!
Autism, Help them Succeed!
Amanda Biddle

ENGLISH
10:00 – 11:30
PUB Meeting Room 2
Steve Hicks
Back to (Our) Nature: Analysis of Classical and Contemporary Literature
Stephanie Lam, Austin Miller, Alyssa Ward

ENVIRONMENTAL STUDIES
8:00 – 12:00
Greenberg Auditorium
Robert Myers
Environmental Studies Capstone Presentations
Central PA Waterways: A Case Study
Mitch Endress
Easing the Transition for Returning Veterans with Participation in Adventure Therapy
Cassidy Barshinger
Ecotherapy: The Healing Role of Nature in Adolescents with Depression
Meredith Roberts

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Environmental Perspectives in Literary Fantasy Explored Through J.R.R. Tolkien's *The Lord of the Rings*
Sarah Markley

Green Corrections
Mathe. Kerstetter

Horticultural Therapy for Dementia
Jennifer Vaow

The Morality and Consequences of The Monkey Wrench Gang
Hannah Bell

Natural Playscapes and Attention Restoration
Halii VanKirk

Water Quality Changes of Bald Eagle Creek
Patrick Miller

GLOBAL HONORS
8:30 – 11:30

Robinson Hall of Flags

Elizabeth Gruber

Capstone Presentations: Global Honors Program
An Analysis of Patient Compliance with Oral Medications versus Non-insulin Injections in Treatment of Noninsulin-dependent Diabetes Mellitus
Elizabeth Wells

An Overview of Gout and the Evidence Behind its Treatment
Colby Heintzelman

Benefits of Nature
Hannah Bell

The Biological Aspects of Schizophrenia
Chelsea Allen

The Biology of Long Bones and Long Bone Fracture Healing
Hannah Zerbe

Chronic Lower Back Pain and Mental Illness
Kaila Hunter

Development of the M16 Rifle
Marlene Yi

Field Experience and Atrial Fibrillation
Quaadir Otto-Smallwood

The Interpretation of the Commerce Clause
Dallas Kephart
Mechanisms of Chronic Neuroinflammation in the Development of Alzheimer’s Disease Pathology
   Cassandra Fiorino
The Opiate Crisis with a Focus on Heroin: Field Experience
   Zobaku Acholonu
Pain Medication Related to Drug Abuse
   Heaven Martin
Sex-ratio Priming Effects on Human Decision Making
   Alycon Harden
Star Spangled Banner To Anacreon in Heaven
   Thomas Bates

HISTORY
12:30 – 2:00
   Janet Irons
   Components of Civil Rights Movements
      Kayla Bartlebaugh, Erin Bolan, Casey Damicantonio,
      Nicholas Dunn, Nicholas Gower, John Hartnett, Madison
      Lerch, Martin Littleton, Michael Lynch, Myles Martin

PHYSICS
2:00 – 5:00
   Indrajith Senevirathne
   Nano Engineering and Modification of Surfaces towards Sensors
      Biosensors and Continuous Glucose Monitoring
         Sylviana Hanna
      History and Uses of Aerogel
         Grier Sayers
      Nanocomposite Hydrogels
         Eva Miller
      Nanotechnology in MRI
         Jeremiah Hoy
      Nanotechnology in Textiles
         Patrick Gallagher
      Solar Advancement
         Devin Embick
      A Study on Metal and Semi-Conducting Nanowires
         Blake Miller
Synthetic Melanin Nanoparticles
Olivia Bellomo
Thorium and the Future of Energy
William Cawley

SPANISH
10:00 – 12:00
Raub 422

Damarys Lopez
Popular Traditions and Celebrations in Latin America
Bolivia: Carnaval de Oruro
Alexandria Herrera, Justice Scruggs
Bolivia: Fiesta del Mar en Titicaca
Christian Kelly
Colombia: Carnaval de Barranquilla y Festival de las Flores de Medellín
Isaac Childs, Lucas Kneller
Colombia: Carnaval de Blancos y Negros en Pasto y Fiesta de Cali
Sarah Belinda, Martin Littleton
Cuba: Celebración de Nuestra Señora de la Caridad y la Fiesta de los Orishas
Sarah Mae McClenaghan
México: Día de los Muertos y La Guelaguetza en Oaxaca
Lindsey Walsh, Karen Williams
Panamá: Fiesta Nacional de la Pollera y Festival de Diablos y Congos
McKenzi Divers, Lauren Leyson
Perú: Inti Raymi
Shae Cowfer, Cassidi Martin
Perú: Qoyllur Rit’i
Amelia Garraway, Connor Poorman

11:00 – 12:00
Raub 421

Enrique Herrera
En torno a la literatura y cultura hispanoamericana
Escudriñando los imaginarios de artistas hispanoamericanos
Marissa Devlin, Milana Manuilov
El espacio en “El hijo”
Derek Lupian, Joseph Velazquez
El espacio en “El sur”
Luz Burgos, Ryan Polishan
La ironía en “Nos han dado la tierra”
   Caleb Bookhammer, Hannah Simon
La realidad y fantasía en “El sur”
   Jessica Dunkleberger, Zared Reichert
Repasando la identidad en “El sur”
   Marissa Devlin, Ryia Steward
El simbolismo en "Nos han dado la tierra"
   Daisha Allen, Haylee Young
El simbolismo en “Piedra negra sobre una piedra blanca”
   Jamison Bond, Gregory Thompson
La tensión y crítica social en "Nos han dado la tierra"
   Sarah Kozlowski

12:30 – 2:00  Raub 422
Eduardo Valerio
How Knowledge of Hispanic Culture Can Assist in Solving Issues in the Community
   Kelsey Brown, Mariia Gorbenko, Amanda Herr, Hayley Kilian, Mathew Lahn, Kaison Mitchell, Gary Searle, Kyle Smith

1:30 – 3:30  Raub 407
Damaris Lopez
Must-See Destinations in Latin America and its Cultural Significance
   Bolivia: Lake Titicaca, Yungas Road and Madidi National Park
   Justyn Hightower, Arianna Linder
   Chile: Torres del Paine National Park, Los Pingüinos Natural Monument and Valle de la Luna
   Andrew Dunn, Jade Love
   Chile: Valparaiso, San Rafael Glacier and Easter Island
   Lauren Cole, Rachael Owens
   Colombia: Coffee Zone and Cartagena
   Amah Dunor, Michael Schaeffer
   Cuba: Old Havana, Malecon, Baracoa and Vinales National Park
   Briana Watson and Cimone Weeks
   México: Oaxaca, Tenochtitlan and Merida
   Alyson Masden, Kyle Rawlings
   Perú: Cusco, Sacred Valley and Machu Picchu
   Roxanne Bell, Deborah-Victory Fasuyi
   Perú: Nazca Desert, Iquitos and Máncona
   Tariq Cannady, Kayla Schneider
WOMEN AND GENDER STUDIES
12:30 – 2:30
Raub 210
Holle Canatella

Women and Gender Studies Minor Capstone Projects
British Domestic Noir
Hannah Thomas
Mental Health Disparities in the LGBTQIA+ Community
Al Bright
Queer Implications in British Literature
Tyler Tallmadge
ARTS AND HUMANITIES

ENGLISH
2:30 – 4:00
PUB Multi-Purpose Room
Dana Washington
Fiction Reading

6:30 – 7:45
PUB Multi-Purpose Room
Lisa Riede, Helen Prien, and Dana Washington
*The Crucible*, Live!
LHU students and faculty

FINE ARTS
9:00 – 4:00
PUB Multi-Purpose Room
Jason Bronner
Designs to Raise Awareness of Human Trafficking in Pennsylvania
Vance Godfrey, Rick Kessinger, Jessica Long, Courtney Quiggle, Megan Rathmell, Destiny Schmidt, Symone Terrell

FRESHMAN COMMONS
9:00 – 4:00
PUB Multi-Purpose Room
Richard K. Van Dyke
Building Bridges Selfie Mural
Vance Godfrey, Charles Hommey
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Student Presenter</th>
<th>Department</th>
<th>Faculty Sponsor</th>
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<tbody>
<tr>
<td>2:10</td>
<td>Opening Remarks</td>
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<td>2:15</td>
<td>Potential Transfer of the Vancomycin-resistant Van A gene from isolated strains of Enterococcus species to Pathogenic Bacteria in an Aquatic Environment</td>
<td>Steve Elgin Cameron McLeroy</td>
<td>Biology</td>
<td>Dr. Joseph Calabrese</td>
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<td>2:30</td>
<td>Zinc Tungstate Scintillators</td>
<td>Derek Grove</td>
<td>Geology &amp; Physics</td>
<td>Dr. Marian Tzolov</td>
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<td>2:45</td>
<td>Application of GPR, Geospatial and Geochemical Techniques to Determine Sediment Origin and Accumulation Patterns in Keller Reservoir, Clinton County, PA</td>
<td>Scott Wolf</td>
<td>Geology &amp; Physics</td>
<td>Dr. Md. Khalequzzaman</td>
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<td>3:00</td>
<td>Significance of the Prokaryotic Microbiome of Myotis lucifugus and the potential relationship to White-Nose Syndrome (WNS) disease</td>
<td>Natasha Heath Olyvea Welch</td>
<td>Biology</td>
<td>Dr. Joseph Calabrese</td>
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<td>3:15</td>
<td>Break</td>
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<td>3:30</td>
<td>Development of Tools for Lipase Purification and Characterization</td>
<td>Zachary Knepp</td>
<td>Chemistry</td>
<td>Dr. Kyle Root</td>
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<td>3:45</td>
<td>Veronica Franco and Life as a Woman in the Renaissance</td>
<td>Kasmira Zechman</td>
<td>History</td>
<td>Dr. Holle Canatella</td>
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<td>4:00</td>
<td>Perceived Stigma of Speech, Language, Physical, and Psychological Therapy</td>
<td>Rachael Metzinger</td>
<td>Psychology</td>
<td>Dr. Tara Mitchell</td>
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<td>4:30</td>
<td>Judges’ Deliberation Awards and Closing Remarks</td>
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## COS 2018 TEAM

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<thead>
<tr>
<th>Role</th>
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<tbody>
<tr>
<td>Administration</td>
<td>Donna Wilson</td>
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<tr>
<td>Program Editor</td>
<td>Dana Washington</td>
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<td>Artwork Coordinator</td>
<td>Jason Bronner</td>
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<td>Cover Design</td>
<td>Vance Godfrey</td>
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<td>Phi Kappa Phi Symposium</td>
<td>John Reid</td>
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<td>Facilities Coordinator</td>
<td>Marchal Rote</td>
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<td>Student Assistant</td>
<td>Sierra Laughead</td>
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<td>Website Support</td>
<td>Tyler Rumsey</td>
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<td>Dana De Gannes</td>
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<td>Brianna DeAngelis</td>
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<td>Yonathan Sosa</td>
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<td>Coordinator</td>
<td>Enrique Herrera</td>
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