

## PROGRAM AT A GLANCE

7:30 – 8:30	Registration, Poster Set-up, Breakfast	HUB Atrium/Ohio Room
8:30 –9:50	Concurrent Sessions A How We Learn Economics and Social Analysis Gender and Society Music	HUB
9:20 – 11:20	Business Case Competition	HUB Knowlton Room
9:50 – 10:00	Refreshments	HUB Atrium
10:00 – 11:20	Concurrent Sessions B Caring for Our Children Physical Sciences Underrepresented Groups and Social Change Understanding Self through Art	HUB
11:20 – 1:30	Poster Discussions	HUB Ohio Room
1:30 – 2:50	Concurrent Sessions C Human Health (1:30 – 2:50) Mathematical Visualization (1:30 – 2:10) Gender and Sexualities (1:30 – 2:10) Art Challenging Society (1:30 – 2:50) Theater (2:10 – 2:50) Understanding Life (1:30 – 2:50)	HUB
2:50 – 3:00	Refreshments	HUB Atrium
3:00 – 4:20	Concurrent Sessions D History (3:00-4:20) Religion and Society (3:00-4:20) Public Policy (3:00-4:20) Art Analysis (3:00-4:20) Crime and Punishment (3:00-4:20) Music Performance (3:20-4:20)	HUB/Cogswell Hall
4:30 – 6:30	Student Juried Art Exhibition	Kipp Gallery, Sprowls Hall
4:30 – 5:00	Reception	Sprowls Hall
5:00 – 6:00	Awards Ceremony and Program <i>Student Juried Art Awards, Poster Session Awards,            Bibliography Awards, Best in Session Awards,            Common Freshman Reader Awards, Sigma Xi Awards,            and Door Prizes</i>	McVitty Auditorium, Sprowls

## **Sponsored by**

**Dr. Tony Atwater, President, Indiana University of Pennsylvania  
and  
The School of Graduate Studies and Research**

**Conference Co-Chairs - Dr. H. Edward Donley  
Dr. Kelli Jo Kerry-Moran  
Dr. J. Beth Mabry  
Dr. Michele Schwietz  
Facilitator – Ms. Tressa Wright**

**Planning Committee:** Chris Clouser, Portia Diaz, H. Edward Donley, John S. Eck, Michelle Fryling, Janet Goebel, Christian Hess, Steve Hovan, James Jozefowicz, Kelli Jo Kerry Moran, Becky Knickelbein, James Lenze, Beth Mabry, Calvin Masilela, Kelli Paquette, Alison Pate, Dan Sadler, Michele Schwietz, Teresa Shellenbarger, Hilary Staples, Benjamin West, Joette Wisnieski, and Tressa Wright

### **Special Recognition**

- IUP Undergraduate Scholars
- IUP Faculty Sponsors

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### **Special Thanks to:**

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- Chad Sherman – Cover Designer and Communications Technology Program student
- James Lenze, Department of Communications Media, Logo Designer
- Alison Pate, Department of Art, Student Juried Art Exhibition
- McNair Scholars Program
- Kraig Hamilton, Mark Hilliard, and Jim DeCesare, Business Case Competition Judges
- Forum Judges

## PROGRAM

7:30 – 8:30      Registration, Poster Set-up, Breakfast      Atrium, HUB Ohio

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8:30 – 9:50      Concurrent Sessions A

How We Learn  
Concurrent Session #A01

### *Susquehanna Room*

Session Chair: Becky Knickelbein

Constituents of a Mental Model in Learning Chemical Equilibrium (Dept: Chemistry)

**Student (s):** Nadia Szymanski

**Faculty Advisor:** Michael Briggs

Science Where Students Develop Their Own Labs: A Model of Inquiry (Dept: Biology)

**Student (s):** Thomas Melvin and Angela Manifest

**Faculty Advisor:** Thomas Lord

Student Perceptions of Distance Education in Virtual Environments

**(Dept: Communications Media)**

**Student (s):** Lauren Bazala, Sylvia Choi, and Sean Riffle

**Faculty Advisor:** James Lenze

Effective Techniques of the English as a Second Language Program in an Urban School: An Action Research Evaluation (Dept: Professional Studies in Education)

**Student (s):** Bernadette Padilla-Donnelly

**Faculty Advisor:** Monte Tidwell

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Economics and Social Analysis

Concurrent Session # A02

### *Monongahela Room*

Session Chair: Yaya Sissoko

Does Offshoring Actually Decrease Wage and Employment Levels for Manufacturing Jobs?

**(Dept: Finance and Legal Studies)**

**Student (s):** Anthony Blair

**Faculty Advisor:** James Jozefowicz

Play for Pay: What Actually Determines a National Basketball Association Player's Salary?

**(Dept: Economics)**

**Student (s):** Vernon Brundage

**Faculty Advisor:** James Jozefowicz

The Practiced and the Preached: An Analysis of State Divorce Rates and Religious Participation

Levels (Dept: Economics)

**Student (s):** Lauren Venturino

**Faculty Advisor:** James Jozefowicz

Grameen Bank and the World of Microcredit (Dept: Psychology)

**Student (s):** Vanessa Varacalli

**Faculty Advisor:** Miriam Chaiken

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Gender and Society

Concurrent Session # A03

***Allegheny Room #1***

Session Chair: Daniel Burkett

Gender Differences in Preference for Community Pull Factors (Dept: Sociology)

**Student (s):** Lindy Kopicki

**Faculty Advisor:** Beth Mabry

College Men's Implicit and Explicit Gender Attitudes and Hostility toward Gender Variant Men

**(Dept: Psychology)**

**Student (s):** Brett Goshe

**Faculty Advisor:** Maureen McHugh

Subliminal Messaging in Reference to Gender (Dept: Theater and Dance)

**Student (s):** Christine Marie

**Faculty Advisor:** Robert Gretta

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Music

Concurrent Session # A04

***Conemaugh Room***

Session Chair: Michele Schwietz

The Evolution of the Marching Arts (Dept: Music)

**Student (s):** Jeremy DeLuca

**Faculty Advisor:** Michael Kingan

*The Sleeping Giant – A Look at How Elisabeth Jacquet de la Guerre’s Cantata “Le Sommeil d’Ulisse” Predicted and Reflected the Changes in French Society in the wake of the Revolution*

**(Dept: Music)**

**Student (s):** Tracey Baker

**Faculty Advisor:** Matthew Baumer

*Patterns of Emerging Music Legends in Historic New Orleans* **(Dept: Various)**

**Student (s):** Matthew Marcello, Natasha Crissey, Eugene Offerman, and Joseph Bowman

**Faculty Advisor:** Lorraine Wilson

*Music for Deaf and Hard-of-Hearing Persons in the Classroom: More than Just a Listening Activity*

**(Dept: Music)**

**Student (s):** Meghan Johnson

**Faculty Advisor:** Michael Kingan

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**9:20 – 11:20      Business Case Competition**

*Knowlton Room*

Session Chair: Joette Wisnieski

*The Battle in Radio Broadcasting* **(Dept: Various)**

**Student (s):** Allyson Hale and Jill Barker

**Faculty Advisor:** Joette Wisnieski

*The Battle in Radio* **(Dept: Various)**

**Student (s):** Noah Thistle, Matthew Nesdill, and Anthony Blair

**Faculty Advisor:** Joette Wisnieski

*The Battle in Radio Broadcasting: XM vs. Sirius vs. Local Radio vs. Internet Radio*

**(Dept: Various)**

**Student (s):** Clarissa Wilson, Monika Hofmann, and Kayla Held

**Faculty Advisor:** Joette Wisnieski

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**9:50 – 10:00      Refreshments**

**Atrium**

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## 10:00 – 11:20 Concurrent Sessions B

Caring for Our Children  
Concurrent Session # B01

### *Susquehanna Room*

Session Chair: Teresa Shellenbarger

*The Loss of Education in Afghanistan = A Loss of Life* (Dept: English)

**Student (s):** Natalee Moody

**Faculty Advisor:** Susan Welsh

*Determinants of Breast Feeding Intention Among College Students: Attitudes, Subjective Norms, and Perceived Behavioral Control* (Dept: Food and Nutrition)

**Student (s):** Tegan Medico

**Faculty Advisor:** Diane Wagoner

*Local Determinants of Malnutrition in Bolivian Children* (Dept: Food and Nutrition)

**Student (s):** Janelle Porter

**Faculty Advisor:** Rita Johnson

*Exploring Non-Offending Caregiver Satisfaction with the Children's Advocacy Center of Indiana County* (Dept: Sociology)

**Student (s):** Candice Henry

**Faculty Advisor:** Kathryn Bonach

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Physical Sciences  
Concurrent Session # B02

### *Monongahela Room*

Session Chair: Nathan McElroy

*A Crystallographic Detective Story: Solving the Li<sub>2</sub>ZnSnS<sub>4</sub> Structure* (Dept: Chemistry)

**Student (s):** Beth Leverett

**Faculty Advisor:** Charles Lake

*Green Production of Bioplastics* (Dept: Chemistry)

**Student (s):** Caitlin Williamson and Justin Tressler

**Faculty Advisor:** Keith Kyler

*Constraints on Pull-Apart Basin Formation from Tectonic* (Dept: Geoscience)

**Student (s):** Kalin McDannell

**Faculty Advisor:** Jonathan Lewis

*Finding DNA Aptamers to Inhibit Human IMPDH Type II (Dept: Biochemistry)*

**Student (s):** Aubree Webb

**Faculty Advisor:** Keith Kyler

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Underrepresented Groups and Social Change

Concurrent Session # B03

***Allegheny Room #1***

Session Chair: Michelle Fryling

*Perceptions of Discrimination and Voluntary Social Segregation among Black and White College Students (Dept: Sociology)*

**Student (s):** Micah Jalloh

**Faculty Advisor:** Beth Mabry

*Seeking Social Change: The Role of African-American Churches During the Civil Rights Movement in Pittsburgh (Dept: History)*

**Student (s):** Raymond Elliott

**Faculty Advisor:** Elizabeth Marcus

*The Educational Plight of Blacks and Latinos at Indiana University of Pennsylvania*

**(Dept: Anthropology)**

**Student (s):** Qiana Lightner

**Faculty Advisor:** Victor Garcia

*A Study of Factors Attributed to Successful African American Women*

**(Dept: Communications Media)**

**Student (s):** Aleya Crable

**Faculty Advisor:** Richard Lamberski

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Understanding Self Through Art

Concurrent Session # B04

***Conemaugh Room***

Session Chair: James Lenze

*Communication Traces (Dept: Art)*

**Student (s):** Kristin Provident

**Faculty Advisor:** Patricia Villalobos-Echeverria

*Disability Awareness and Documentation Through Art (Dept: Art)*

**Student (s):** Sonya Seitz

**Faculty Advisor:** Patricia Villalobos-Echeverria

Visual Manifestations of Self-Preservation (Dept: Art)

**Student (s):** Alisha McCurdy

**Faculty Advisor (s):** Patricia Villalobos-Echeverria and James Nestor

Be A Man's Man, Man (Dept: Art)

**Student (s):** Richard Decker

**Faculty Advisor:** Patricia Villalobos-Echeverria

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**11:20 – 1:30      Poster Discussions**  
**HUB Ohio Room**  
**See Page 15 for poster listing**

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**1:30 – 2:50      Concurrent Sessions C**

Human Health (1:30-2:50)

Concurrent Session # C01

***Susquehanna Room***

Session Chair: Portia Diaz

Take Advantage of Your Diet: Increase Intake of Zinc, Iron, and Magnesium May Reduce Symptoms of ADHD (Dept: Food and Nutrition)

**Student (s):** Shawna Crockett

**Faculty Advisor:** Wendy Elcesser

A Wolf and Sheep's Clothing: An Assessment of College Students' Knowledge and Attitudes Towards HIV and AIDS (Dept: Nursing and Allied Health Professions)

**Student (s):** Carol Shuler

**Faculty Advisor:** Christine Black

Physical Activity and Depression/Anxiety Levels (Dept: Health and Physical Education)

**Student (s):** Julianne Gillespie

**Faculty Advisor (s):** Madeline Paternostro-Bayles and Robert Alman

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Mathematical Visualization (1:30-2:10)

Concurrent Session # C02

***Monongahela Room***

Session Chair: Ed Donley

*Measuring Digital Image Similarity Using a New Histogram-Based Approach*

**(Dept: Computer Science)**

**Student (s):** Sean Olson

**Faculty Advisor:** Waleed Farag

*Sierpinski Curve Julia Sets from 3-Circle Inversion* **(Dept: Mathematics)**

**Student (s):** Jason Carney

**Faculty Advisor:** Daniel Look

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Gender and Sexuality (1:30-2:10)

Concurrent Session # C03

***Allegheny Room #1***

Session Chair: Daniel Burkett

*Buzz Cuts and Poly Blends: How Lesbian Self-Concepts are Affected by Lesbians in the Media*

**(Dept: Sociology)**

**Student (s):** Loni Yatsko

**Faculty Advisor:** Beth Mabry

*A Study Examining the Role of Social Class, Gender, and Religion in African-American Attitudes toward Homosexuality* **(Dept: Sociology)**

**Student (s):** Sasha King

**Faculty Advisor:** Robert Heasley

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Art Challenging Society (1:30-2:50)

Concurrent Session # C04

***Conemaugh Room***

Session Chair: Susan Palmisano

*The Beauty in Nature's Decay* **(Dept: Art)**

**Student (s):** Stephanie Zini

**Faculty Advisor:** Patricia Villalobos-Echeverria

Counter Culture Anti-Art: A Fight for Change in the Post-Post Paradigm (Dept: Art)

**Student (s):** Jason Brown

**Faculty Advisor (s):** Brenda Mitchell, James Nestor, and Patricia Villalobos-Echeverria

Evolutionary Understanding (Dept: Art)

**Student (s):** Aaron Treher

**Faculty Advisor:** Patricia Villalobos-Echeverria

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Theater (2:10-2:50)

Concurrent Session # C05

***Knowlton Room***

Session Chair: Kelli Jo Kerry Moran

Dramatizing Interview Material: Strategies of Documentary Drama (Dept: Theater and Dance)

**Student (s):** Natalia Kaniasty

**Faculty Advisor:** Richard Kemp

Dear Hally (Dept: English)

**Student (s):** Garritt Fleming

**Faculty Advisor:** Catherine McClenahan

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Understanding Life (1:30-2:50)

Concurrent Session # C06

***Allegheny Room #2***

Session Chair: Carl Luciano

The Effect of Melatonin on Circadian Rhythms of Paramecium (Dept: Biology)

**Student (s):** Christie Ritchey

**Faculty Advisor:** Robert Hinrichsen

Who's the Boss: Female Competition, Conflict, and Alliances During the Transfer of Western Lowland Gorilla (*Gorilla gorilla gorilla*) Females (Dept: Anthropology)

**Student (s):** Alicia Rich

**Faculty Advisor:** Miriam Chaiken

Color Effects: Will Daphnia React to Colors the Same Way Humans React? (Biology)

**Student (s):** Brandi Pittinger, Matthew Carroll, and Sarah Klinger

**Faculty Advisor:** W. Butler

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**2:50 – 3:00**

**Refreshments**

**Atrium**

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**3:00 – 4:20**

**Concurrent Sessions D**

History (3:00-4:20)

Concurrent Session # D01

***Susquehanna Room***

Session Chair: Joseph Mannard

*16<sup>th</sup> Century Changes in Church and State and the Rise of English* (Dept: History)

**Student (s):** Marisa Goldstein

**Faculty Advisor:** Lynn Botelho

*Buying History: A Historical Analysis of Museum Funding* (Dept: History)

**Student (s):** Laura Heiman

**Faculty Advisor:** Kevin Britz

*Kiss and Tell: Kissing and the Creation of the Modern Woman in 1930's Shanghai* (Dept: History)

**Student (s):** Gina Russo

**Faculty Advisor:** Alan Baumler

*History's Victims in Arundhati Roy's The God of Small Things* (Dept: English)

**Student (s):** Elise Auvil

**Faculty Advisor:** Jean Nienkamp

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Religion and Society (3:00-4:20)

Concurrent Session # D02

***Monongahela Room***

Session Chair: Ed Donley

*Who Better to Lead the Blind than the Blind, Who Knew What it was Like?: Unlikely Sources of Religious Insight in Flannery O'Connor's Wise Blood* (Dept: English)

**Student (s):** Leeann Comfort

**Faculty Advisor:** Sung Chow

*Social Conditions: The Driving Force of Cult Formation* (Dept: Sociology)

**Student (s):** Robyn Markowitz

**Faculty Advisor:** Beth Mabry

Hues of Heresy: A Contextual Analysis of the Galileo Affair (Dept: History)

**Student (s):** Mara Iverson

**Faculty Advisor:** Robert Moore

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Public Policy (3:00-4:20)

Concurrent Session # D03

***Allegheny Room #1***

Session Chair: James Jozefowicz

Wind Power in Pennsylvania (Dept: Sociology)

**Student (s):** Christopher Stefanides, Carrie Timko, Denae Johnson, Jonathan Frank, and Micah Jalloh

**Faculty Advisor:** James Dougherty

Private Military Companies: A Question of Integration (Dept: Political Science)

**Student (s):** Charles Stanavich

**Faculty Advisor:** Susan Martin

Popular Demand and Public Necessity: The Evolution of Presidential War Making Power (Dept: Political Science)

**Student (s):** Jaci Rodgers

**Faculty Advisor:** David Chambers

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Art Analysis (3:00-4:20)

Concurrent Session # D04

***Conemaugh Room***

Session Chair: Michelle Fryling

Pattern Sequences (Dept: Art)

**Student (s):** William Peden

**Faculty Advisor:** Patricia Villalobos-Echeverria

The Critique (Dept: Art)

**Student (s):** Courtney Cullen

**Faculty Advisor:** Patricia Villalobos-Echeverria

Women's Fellowship in Artemisia Gentileschi's "Judith Slaying Holofernes" and "Danae": Widening the Feminist Critique (Dept: Art)

**Student (s):** Taya Hanauer

**Faculty Advisor:** Irene Kabala

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Crime and Punishment (3:00-4:20)  
Concurrent Session # D05

***Knowlton Room***

Session Chair: Daniel Sadler

*Stalking in the Absence of Threat* (Dept: Psychology)

**Student (s):** RyAnna Verbiest

**Faculty Advisor:** David LaPorte

*Juvenile Justice: A Review of Juvenile Transfer* (Dept: Criminology)

**Student (s):** Mandy Moser

**Faculty Advisor:** Alida Merlo

*Juveniles Serving Life Sentences Without the Chance of Parole* (Dept: Criminology)

**Student (s):** Christina Lee

**Faculty Advisor:** Alida Merlo

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Music Performance (3:20-4:20)

Concurrent Session # D06

***Cogswell Hall, Room 126***

Session Chair: Kelli Paquette

*Musical New Orleans – An Exploration of Song and Musical Development* (Dept: Music)

**Student (s):** Andrew Shingledecker, Mara Letterle, Jennifer Goodell, and Gregory MacFarlane

**Faculty Advisor:** Lorraine Wilson

*Ilijas: Odd Meters and Odd Techniques* (Dept: Music)

**Student (s):** Michael Dooley

**Faculty Advisor:** Michael Kingan

*The Effie Suite: A Portrait of a Little Elephants' Journey in the Carnival* (Dept: Music)

**Student (s):** Jonathon Wylie

**Faculty Advisor:** Kevin Eisensmith

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**4:30 – 6:30 Student Juried Art Exhibition**

**Kipp Gallery  
Sprawls Hall**



## Poster Session Details

**Time: All Day; Setup 7:30 to 8:30am; Q&A 11:20am-1:30pm  
HUB Ohio Room**

**P01 “The Beauty Queen of Leenane”:** Unearthing a Culture, Cultivating a Story

**(Dept: Theater and Dance)**

**Student:** Jessica Sabol

**Faculty Advisor:** Jason Chimonides

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**P02 Changes Occur Everyday**

**(Dept: Various)**

**Students:** Lindsey Toth, Kishana Johnson, Seth Moyer, Kellie Just, and Robert Vecchiolli

**Faculty Advisor:** Lorraine Wilson

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**P03 Community Re-entry after Imprisonment**

**(Dept: Criminology)**

**Students:** Ginger Lucas, Kevin Martincic, and Robert Ritenour

**Faculty Advisor:** Rosemary Gido

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**P04 Does Fractured Marriage Equal Fractured Relationships for the Children?: The Relationship Between Parental Divorce and Interpersonal Relationships of Adult Children of Divorce**

**(Dept: Sociology)**

**Student:** Robin Veshosky

**Faculty Advisor:** Beth Mabry

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**P05 Federal Supermax Prisons**

**(Dept: Criminology)**

**Students:** Elias Tomlinson, Adam Plakidas, and Marcus Yocum

**Faculty Advisor:** Rosemary Gido

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**P06 GIS Development for Indiana County, PA Comprehensive Plan**

**(Dept: Geography and Regional Planning)**

**Students:** Joseph Kochinski, Jordan Haines, and Drew Robertson

**Faculty Advisor:** John Benhart

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**P07 Gender-Based Physical Depictions of Characters in Children’s Animated Cartoons**

**(Dept: Sociology)**

**Student:** Jodi Blackwell

**Faculty Advisor:** Beth Mabry

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**P08 GIS Development for PA Game Commission**

**(Dept: Geography and Regional Planning)**

**Students:** Elvin Perez and Hallie John

**Faculty Advisor:** John Benhart

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**P09 Incarcerated Mothers and their Children**

**(Dept: Criminology)**

**Students:** Ciera Powe, Marianne Durkin, and Anna Brady

**Faculty Advisor:** Rosemary Gido

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**P10 GIS Development for the Western Pennsylvania Conservancy – Upper Allegheny Watershed**

**(Dept: Geography and Regional Planning)**

**Students:** Jonathan Bookamer, Anthony Tempo, and Kyle Goisovich

**Faculty Advisor:** John Benhart

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**P11 Jail Overcrowding: Why Can't We Fix a 150-Year Old Problem?**

**(Dept: Criminology)**

**Students:** Benjamin Ammons, Shawn Vigne, and Toby Starr

**Faculty Advisor:** Rosemary Gido

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**P12 Making a Great City Better**

**(Dept: Various)**

**Students:** Robert Roche, Pierino Delli Bovi, Craig Petersen, and Hansen Wijaya

**Faculty Advisor:** Lorraine Wilson

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**P13 I Can Do Anything You Can Do Better: Gender and Perceptions of Leadership Effectiveness**

**(Dept: Sociology)**

**Student:** Kasie Pletcher

**Faculty Advisor:** Beth Mabry

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**P14 Lethal Injection**

**(Dept: Criminology)**

**Students:** Colin Scott, Christopher Catalano, and Jonathan Koestel

**Faculty Advisor:** Rosemary Gido

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**P15 Post Katrina Medical Resources Made Available to the People of New Orleans**

**(Dept: Various)**

**Students:** Victoria Perla, Katie Hornberger, Shawn McMickle, and Giani Ruffo

**Faculty Advisor:** Lorraine Wilson

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**P16 Life Imprisonment for Juvenile Offenders**

**(Dept: Criminology)**

**Students:** Angie Lane, Sarah Roadcap, Jeff Oliver, and Natasha Valentine

**Faculty Advisor:** Rosemary Gido

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**P17 State-Level Supermax Prisons**

**(Dept: Criminology)**

**Students:** Matthew Namey, Matthew Celestin, and Justin McCoy

**Faculty Advisor:** Rosemary Gido

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**P18 Racial Discrimination: A Tool for Activism**

**(Dept: Sociology)**

**Student:** Khadijatu Kalay

**Faculty Advisor:** Beth Mabry

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**P19 The Impact of Mandatory Minimum Sentencing Laws**

**(Dept: Criminology)**

**Students:** Lindsey Kirland, Jenna Robertson, Margaret Brandle, and Esther Harris

**Faculty Advisor:** Rosemary Gido

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**P20 The Economic Effects of Mardi Gras on New Orleans Business Structure**

**(Dept: Management)**

**Students:** Mallory Blaniar, Anthony Almond, and Paul Valsdiaserri

**Faculty Advisor:** Lorraine Wilson

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**P21 What Do Drug Courts Accomplish?**

**(Dept: Criminology)**

**Students:** Kristi Flannery, Matthew Hosey, and Kalin Gerhard

**Faculty Advisor:** Rosemary Gido

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**P22 Can't We All Just Get Along?: Perceptions of College Students in Regard to Social Segregation by Race and their Attitudes Towards It**

**(Dept: Sociology)**

**Student:** April Cox

**Faculty Advisor:** Beth Mabry

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**P23 What are Mental Health Courts?**

**(Dept: Criminology)**

**Students:** Kelsey Lewis, Krysta Pampeña, and Jessica Visnesky

**Faculty Advisor:** Rosemary Gido

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**P24 Spatial Analysis of Graduate Student Matriculation to IUP**

**(Dept: Geography and Regional Planning)**

**Students:** Matthew Fricker and Laura Dyer

**Faculty Advisor:** John Benhart

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**P25 Teaching Youth About Good Oral Health**

**(Dept: Natural Sciences)**

**Students:** Alyssa Stiles and Tai Ly

**Faculty Advisor:** Ellen Chinn

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**P26 School Counseling Needs of the Deaf and Hard of Hearing**

**(Dept: Special Education & Clinical Services)**

**Student:** Stefanie Fitzpatrick

**Faculty Advisor:** Becky Knickelbein

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**P27 The Impact of Client Affect and Outcome Measure Information on the Judgment on Client Symptom Severity**

**(Dept: Psychology)**

**Student:** Sarah Heck

**Faculty Advisor:** Derek Hatfield

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**P28 A Computational Analysis of Bacillus Circulans Xylanase and the Re-engineering of its pH Optimum**

**(Dept: Chemistry)**

**Student:** Whitney Simmons

**Faculty Advisor:** Jaeju Ko

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**P29 An Investigation of the Reactivity of Distorted Platinum-Alkene-Bonds**

**(Dept: Chemistry)**

**Student:** Andrew Kerr

**Faculty Advisor:** John Woolcock

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**P30 Aquatic Toxicity and Chelation of Lead (II)**

**(Dept: Biology)**

**Students:** Bret Robinson and Peter Stonehouse

**Faculty Advisors:** David Pistole and W. Butler

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**P31 Classification of Apple Varieties by GCMS Analysis of Apple Pulp Volatiles**

**(Dept: Chemistry)**

**Student:** John Crandall

**Faculty Advisor:** John Ford

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**P32 Development of an ELISA for Mouse Growth Hormone Binding Protein (GHBP)**

**(Dept: Biochemistry)**

**Student:** James Zewe

**Faculty Advisor:** Jonathan Southard

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**P33 Environmentally Friendly Synthesis of Pharmaceutical Co-Crystals – A Method to Enhance the Physicochemical Properties of Theophylline**

**(Dept: Chemistry)**

**Student:** Nicole Morozowich

**Faculty Advisor:** Heba Abourahma

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**P34 Exploring Growth Hormone Binding Protein Attachment, Role, and Structure**

**(Dept: Biochemistry)**

**Student:** Brittany Baird

**Faculty Advisor:** Jonathan Southard

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**P35 Extraction of Heavy Metal Ions from Water Samples**

**(Dept: Chemistry)**

**Students:** Deanna Belsky, Samantha Leone, and Andrea Strein

**Faculty Advisor:** Anne Kondo

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**P36 Homology Modeling of Influenza A Virus Polymerase Basic 2 Subunit**

**(Dept: Biochemistry)**

**Student:** Caitlin Williamson

**Faculty Advisor:** Jana Villemain

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**P37 Manganese in Acid Mine Drainage**

**(Dept: Chemistry)**

**Students:** Jonathan Henninger, Christopher Taylor, and Stephen Shiring

**Faculty Advisor:** Anne Kondo

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**P38 Modifying the Physical Properties of Indomethacin by Cocrystallization**

**(Dept: Chemistry)**

**Student:** Elizabeth Paladin

**Faculty Advisor:** Heba Abourahma

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**P39 Nitrite and Zebrafish Embryogenesis**

**(Dept: Biology)**

**Student:** Mayank Talwar

**Faculty Advisor:** Thomas Simmons

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**P40 Optical Properties of III-V Compounds and their Superlattices**

**(Dept: Physics)**

**Student:** Joseph Baccanti

**Faculty Advisor:** Devki Talwar

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**P41 Polymerase Chain Reaction: Amplification of RNA from Tomato Mosaic Virus**

**(Dept: Biochemistry)**

**Student:** Antonio Scatena

**Faculty Advisor:** Bharathan Narayanaswamy

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**P42 Recurrent Neural Networks Composed of Integrate-and-Fire Neurons Produce Gestalt Field-Like Hidden Interactions**

**(Dept: Psychology)**

**Student:** Lindsay Dachille

**Faculty Advisor:** Raymond Pavloski

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**P43 Roles of p53 and BCL-2 as Localized Prostrate Cancer Indicators, using Immunohistochemical Analysis**

**(Dept: Biology)**

**Student:** Kenneth Glassford

**Faculty Advisor:** Seema Bharathan

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**P44 Social Modulation of HVC Auditory Response in Taeniopygia Guttata, Zebra Finch**

**(Dept: Biology)**

**Student:** Jason Wallach

**Faculty Advisor:** Paul Nealen

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**P45 The Effects of Depressants on the Heart Rate of Daphnia**

**(Dept: Biology)**

**Students:** Daniel Winterringer and Anna McKinney

**Faculty Advisor:** Carl Luciano

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**P46 The Synthesis and Characterization of the Potential Ion Conductors Na<sub>2</sub>SrSiO<sub>4</sub> and K<sub>2</sub>SrSiO<sub>4</sub>**

**(Dept: Chemistry)**

**Student:** Brittany Rodgers

**Faculty Advisor:** Charles Lake

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**P47 The Computational Redesign of Bacillus Circulans Xylanase to Shift its pH-Optimum**

**(Dept: Chemistry)**

**Student:** Sarah Heck

**Faculty Advisor:** Jaeju Ko

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**P48 The Long and Exhausting Route of Pregnancy: What's a Primate to Do?**

**(Dept: Anthropology)**

**Student:** Alicia Rich

**Faculty Advisor:** Miriam Chaiken

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