



Indiana University of Pennsylvania

The Seventh
Annual

Undergraduate Scholars Forum

Tuesday, April 3, 2012

PROGRAM



beyond expectations

Program at a Glance

7:30 – 8:30	Registration, Poster Set-up, Breakfast	HUB Atrium/Ohio Room
8:00 – 12:00	Business Case Competition	HUB Susquehanna Room
8:30 –9:50	Concurrent Sessions A	
	Performing Arts	Cogswell Hall Room 126
	Applied Economics	HUB Monongahela Room 1
	Myth and Contemplation through Literature	HUB Monongahela Room 2
	Behaving Badly	HUB Allegheny Room 1
	Chemistry	HUB Allegheny Room 2
9:50 – 10:00	Refreshments	HUB Atrium
10:00 – 11:20	Concurrent Sessions B	
	Economic Development	HUB Monongahela Room 1
	Religion and Literature	HUB Monongahela Room 2
	Sex and Society	HUB Allegheny Room 1
	Emotion and Identity in Art	HUB Allegheny Room 2
11:20 – 1:30	Poster Discussions	HUB Ohio Room
1:30 – 2:50	Concurrent Sessions C	
	Business and Careers	HUB Monongahela Room 1
	Pain and Perception	HUB Susquehanna Room
	The Magic of Ritual (or, There is No Such Thing as a Muggle)	HUB Monongahela Room 2
	Perspectives on the Puritan and Revolutionary Period	HUB Knowlton Room
	Social Interaction	HUB Allegheny Room 1
	People and the Environment	HUB Allegheny Room 2
2:50 – 3:00	Refreshments	HUB Atrium
3:00 – 4:20	Concurrent Sessions D	
	Poverty in Africa	HUB Monongahela Room 1
	Human Health	HUB Susquehanna Room
	Women and Marriage in Religion	HUB Monongahela Room 2
	Education	HUB Allegheny Room 1
	Reflections of Life on the Screen	HUB Allegheny Room 2
4:30 – 6:30	Undergraduate Juried Art Exhibition	Kipp Gallery, Sprowls Hall
4:30 – 5:15	Reception	Sprowls Hall
5:15 – 6:30	Awards Ceremony and Program	McVitty Auditorium, Sprowls
	<i>Juried Art Awards, Poster Session Awards, Bibliography Awards, Session Awards, Sigma Xi Awards, Teacher Work Sample Awards, Best Computational Science Poster, and Door Prizes</i>	

Seventh Annual IUP Undergraduate Scholars Forum

Sponsored by

Dr. David Werner, Interim President

and

The School of Graduate Studies and Research

Forum Co-Chairs – Dr. H. Edward Donley, Dr. J. Beth Mabry, Dr. Lisa Price

Forum Facilitator – Dr. Shari Robertson, Dean's Associate, School of Graduate Studies and Research

Special Recognition:

- IUP Undergraduate Scholars
- IUP Faculty Sponsors

Special Thanks to:

- Dr. David Werner, President
- McNair Scholars Program
- Jean Serio, Autumn Shannon –
School of Graduate Studies and
Research
- Software Development Center
- Kyle Houser, Department of Art
- Session Chairs
- Forum Judges
- Kathy Matty and the HUB setup
crew

Award Sponsors:

- ARAMARK
- College of Fine Arts
- Co-op Store
- IUP Research Institute
- S-COAM Program
- College of Education & Educational Technology
- IUP Libraries
- Sigma Xi, the Scientific Research Society
- IUP Ecology Club

PROGRAM

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

8:00 – 12:00 **Business Case Competition**

Susquehanna Room

Faculty Advisor: Dr Joette Wisnieski

Netflix's Business Model and Strategy in Renting Movies and TV Episodes

Team 1 Jamie L Czech
 Vincent S Hall
 Kurt R Stridinger

Team 2 Olivia A Horning
 Joel M Bender
 Jordan R Pasch

Redbox's Strategy in Movie Rental Industries

Team 3 Vittoria L Buzzelli
 Jacob E Hickey
 Mackenzie J Traxler

Team 4 Ryan P Egan
 Megan E Morris
 Joshua T Noble

Team 5 Ashely N Frankenfield
 Victoria McKay
 Ehtan Y Wang
 Courtner A Price

8:30 – 9:50

Concurrent Sessions A

A01 Performing Arts

Cogswell Room 126

A Wind Band Arrangement of Jean Francaix's L'Horloge de Flore

Speakers: Hannah M. Senft

Faculty Advisor: Dr. Stephanie B. Caulder

Studying the Music of a Master Composer on a Modern Day Instrument

Speakers: Brant E. Roberts

Faculty Advisor: Dr. Michael G. Kingan

Marriage, Then Love

Speakers: Angelica M. Dunsavage, Alexandria C. Hull

Faculty Advisor: Dr. Laura S. Ferguson

Early Dawn

Speakers: Jonathan Donath

Faculty Advisor: Dr. Laura S. Ferguson

A02 Applied Economics

Monongahela Room #1

The Effect of Immigration on State Wages

Speakers: Jennifer M. Johnson

Faculty Advisor: Dr. James J. Jozefowicz

The Effects of Defense Spending on the Real Gross Domestic Product in the United States

Speakers: Andrew E. Arter

Faculty Advisor: Dr. James J. Jozefowicz

Trade Openness and Economic Growth in Malaysia

Speakers: Jin Qin

Faculty Advisor: Dr. Yaya Sissoko

8:30 – 9:50

Concurrent Sessions A (Cont)

A03 Myth and Contemplation through Literature

Monongahela Room #2

Fairies and Their Impact on Victorian Literature

Speakers: Amira I. Minazzi, Tiffany E. Murdy

Faculty Advisor: Dr. Michael T. Williamson

Understanding Wisdom

Speakers: Ashley N. Barclay, Faith M. Elmes

Faculty Advisor: Dr. Gail I. Berlin

How to Closely Read a Piece of Literature, and, at the Very Same Time, Closely Re-Read the Stories of Our Lives

Speakers: Amanda M. Weaver, Amanda M. Slupski, Brendan F. Cope, Perry J. Manley, Erica L. Luczakowsky, Taylor K. Harvey

Faculty Advisor: Dr. Bruce Novak

A04 Behaving Badly

Allegheny Room #1

Outcomes of Post Treatment Services for Chemically Dependent Young Males in Indiana County

Speakers: AnnaMarie N. Lydic

Faculty Advisor: Dr. Melissa L. Swauger

The Neuroscience Debate: Does Education Impact How Students Feel About Juveniles Serving Life in Prison

Speakers: Amber C. Fishel

Faculty Advisor: Dr. John A. Lewis

Sex Trafficking: 'Out of Sight Out of Mind' For IUP Students?

Speakers: Kyle B. Novak

Faculty Advisor: Dr. Jennifer L. Gossett

8:30 – 9:50

Concurrent Sessions A (Cont)

A05 Chemistry

Allegheny Room #2

Synthesis of IMPDH Type II Inhibitor

Speakers: Eboni C. Ramsey

Faculty Advisor: Dr. Keith S. Kyler

***Investigation Of Structural And Magnetic Properties In The Solid Solution
Na₂(Zn_{0.90},Co_{0.10})Sio₄***

Speakers: William D. Moon

Faculty Advisor: Dr. Charles Lake

9:50 – 10:00

Refreshments

Atrium

10:00 – 11:20

Concurrent Sessions B

B01 Economic Development

Monongahela Room #1

Argentina: Problems with Economic Development

Speakers: Lindsay J. Bender

Faculty Advisor: Dr. Yaya Sissoko

India and China: Economic Conditions

Speakers: Akshay Bajpai

Faculty Advisor: Dr. Yaya Sissoko

Effectiveness of Anti-Poverty Policies in Africa

Speakers: Antonio A. Mendes

Faculty Advisor: Dr. Yaya Sissoko

10:00 – 11:20

Concurrent Sessions B (Cont)

B02 Religion and Literature

Monongahela Room #2

Time and Journeys in Myth

Speakers: Kristin M. Troilo, Stefanie M. Doyle

Faculty Advisor: Dr. Michael T. Williamson

Power and Piety: Motivations Behind the Early Stages of the Arian Controversy

Speakers: Kelsey L. Lowman

Faculty Advisor: Dr. Robert S. Moore

Grotesque Faith and the Road to Absolution

Speakers: Robbin Zirkle

Faculty Advisor: Dr. Lynne B. Alvine

B04 Sex and Society

Allegheny Room #1

Platonic Love: Same-Sex Male Friendship in Early Modern Europe

Speakers: Samantha N. Muir

Faculty Advisor: Dr. Lynn A. Botelho

Man vs. Beauty: Meeting Unrealistic Standards in a Sexualized World

Speakers: Elle M. Ladebu

Faculty Advisor: Dr. John Branscum

Effect of Feminine Birth Control on Condom Usage Among College Students

Speakers: Sarah E. Smith, Scott A. Harris, Shannon K. Sullivan

Faculty Advisor: Dr. William R. Donner

10:00 – 11:20 Concurrent Sessions B (Cont)

B05 Emotion and Identity in Art

Allegheny Room #2

The Expression of Emotion in the Arts: Where is it?

Speakers: Jedidiah T. Fetterman

Faculty Advisor: Dr. Carol L. Caraway

Cover-up Uncovered: The Painting Process and Layered Memories, Dreams and Thoughts

Speakers: Elizabeth M. Plakidas

Faculty Advisor: Dr. Susan M. Palmisano

The Socialization of Identity Formation: Recent Works by Claira Heitzenrater

Speakers: Claira J. Heitzenrater

Faculty Advisor: Dr. Susan M. Palmisano

Cock Tale: Religion, Sexuality and Chickens

Speakers: Alison P. Terndrup

Faculty Advisor: Dr. Susan M. Palmisano

11:20 – 12:30 POSTER SESSIONS

Ohio Room

Poster authors will be available throughout this period to answer questions about the scholarship represented through their poster or static display.

See page 18 for poster titles and authors.

***Posters will be displayed from 8:30-3:30.**

1:30 – 2:50

Concurrent Sessions C

C01 Business and Careers

Monongahela Room #1

Does Utilization of Social Media Help Increase ROI for Small Businesses?

Speakers: Lisa McCann

Faculty Advisor: Dr. Joette M. Wisnieski

Socioeconomic Status and Career Aspirations

Speakers: Caitlyn N. Cook, Eve R. Hoffman

Faculty Advisor: Dr. William R. Donner

Social Networks and the Recruitment/Hiring Process

Speakers: Moncure Vaden

Faculty Advisor: Dr. Paul M. Kosicek

"Is Middle Management the Dying Breed?" An Analysis of Middle Management within Modular and Prefabricated Home Construction Industry of Clarion County

Speakers: Sarah M. Stone

Faculty Advisor: Dr. Paul M. Kosicek

C02 Pain and Perception

Susquehanna Room

Do Visual Adaptation Aftereffects Support A Model Of How Neural Interactions Result In Visual Surface Perception?

Speakers: Iryna Yavorska

Faculty Advisor: Dr. Raymond P. Pavloski

Infant Imitation from Object-Specific and Conceptually Learned Action Sequences

Speakers: Rachel A. Snyder

Faculty Advisor: Dr. Lisa C. Newell

Does It Hurt? Influential Factors Of Infant Pain Response To Vaccinations

Speakers: Lauren L. McQuiston

Faculty Advisor: Dr. Lisa C. Newell

1:30 – 2:50

Concurrent Sessions C (Cont)

C03 The Magic of Ritual (or, There is No Such Thing as a Muggle)

Monongahela Room #2

Santería: The Ritual of Initiation

Speakers: Rachel S. Scherer

Faculty Advisor: Dr. C. Todd White

Islamic Funeral: Ceremony and Practices

Speakers: Carly L. Ryther

Faculty Advisor: Dr. C. Todd White

My Experience with the Tibetan Buddhist Mandala at IUP

Speakers: Shane C. Myers

Faculty Advisor: Dr. C. Todd White

Thirty Days to a Better Man: A Surrogate Coming of Age Ritual in the Art of Manliness Community

Speakers: Rebecca A. Godshall

Faculty Advisor: Dr. C. Todd White

Hazing and Warrior Societies: Personal Experiences of the US Army Hazing

Speakers: Matthew W. Finley

Faculty Advisor: Dr. C. Todd White

C04 Perspectives on the Puritan and Revolutionary Period

Knowlton Room

Perspectives on the Puritan and Revolutionary Period

Speakers: Paige A. Peterson, Morgan A. Allman, Samuel T. Sullivan, Chelsea G. Murray

Faculty Advisor: Dr. Carolyn K. Camp

1:30 – 2:50

Concurrent Sessions C (Cont)

C05 Social Interaction

Allegheny Room #1

Overcoming Stereotype Threat: The Effects of I-sharing on Women's Test Performance

Speakers: Mallory L. Clark

Faculty Advisor: Dr. Anson E. Long

Sifting Behaviors: An Exploratory Study on How We Meet People and Make Friends

Speakers: Michelle L. Dufford

Faculty Advisor: Dr. Victor Q. Garcia

The Art of Interaction: Community and Conversation

Speakers: Amber N. Niedomys

Faculty Advisor: Dr. Sean M. Derry

Social Value Orientation and Cooperation: The Mediating Role of Dispositional Empathy and Reading the Mind in the Eyes Ability

Speakers: Sultan A. Magruder

Faculty Advisor: Dr. John A. Mills

C06 People and the Environment

Allegheny Room #2

Lithic Analysis: The Raw Materials Present in the Lithic Artifacts of the Johnston Site (36In2)

Speakers: Michele L. Troutman

Faculty Advisor: Dr. Beverly M. Chiarulli

Diversity and Affordability in LEED-ND Neighborhoods

Speakers: Jawanda Jackson

Faculty Advisor: Dr. Whit Watts

Walking for Britain: The Ramblers' Association and the Creation of Britain's National Parks

Speakers: Teresa M. Stage

Faculty Advisor: Dr. Tamara L. Whited

The Sticks

Speakers: Joseph R. Lovenduski

Faculty Advisor: Dr. Susan M. Palmisano

2:50 – 3:00

Refreshments

Atrium

3:00 – 4:20

Concurrent Sessions D

D01 Poverty in Africa

Monongahela Room #1

Globalization and African Poverty

Speakers: Melissa K. Aasness

Faculty Advisor: Dr. Yaya Sissoko

Rural Poverty Versus Urban Poverty in Sub-Saharan Africa

Speakers: Jocelyn R. Amevuvor

Faculty Advisor: Dr. Yaya Sissoko

African Poverty and Foreign Aid

Speakers: William F. Frederick, Matthew Stephenson

Faculty Advisor: Dr. Yaya Sissoko

Who are the Poor in Africa?

Speakers: Chad R. Good, Eric J. Storm

Faculty Advisor: Dr. Yaya Sissoko

3:00 – 4:20

Concurrent Sessions D

D02 Human Health

Susquehanna Room

:

The Training Effects of a Seven Week Heavy Rope Training Program

Speakers: Daniel Cuevas

Faculty Advisor: Dr. Robert E. Alman

A Comparison of Pressure Ulcer Risk Assessments

Speakers: Deanna Mehalko, Kayla Painter, Devin Convery

Faculty Advisor: Dr. Michele A. Gerwick

D03 Women and Marriage in Religion

Monongahela Room #2 :

The First Woman Eve in Art

Speakers: Renee E. Murren

Faculty Advisor: Dr. Tawny Holm

A Comparison of Two Eves in Christianity

Speakers: Clark E. Aitkins

Faculty Advisor: Dr. Tawny Holm

Divine Marriage: An Analysis of Bridal Imagery in the Bible

Speakers: Elizabeth Thomas

Faculty Advisor: Dr. Tawny Holm

Hagar in Monotheistic Traditions

Speakers: Jerod H. Elias

Faculty Advisor: Dr. Tawny Holm

D04 Education

Allegheny Room #1 :

Future leaders of the classroom: Factors that Influence Senior Education Majors' Decision on Where they will Educate Once they Enter the Work Force

Speakers: Naporje D. Washington

Faculty Advisor: Dr. Melanie D. Hildebrandt

Would You Pass the Test?: How Education Reform is Moving Students in the Wrong Direction

Speakers: Laurin D. Jefferson

Faculty Advisor: Dr. Judith H. Villa

The Meaning of True Education in My Life

Speakers: Timothy J. Lynch, Jessica E. Jones, Maura K. Sadler, Lameera D. Pine

Faculty Advisor: Dr. Bruce Novak

Is the Social Studies Curriculum being Phased Out?

Speakers: Kimberly A. Hofstetter

Faculty Advisor: Dr. Mary G. Gainer

D05 Reflections of Life on the Screen

Allegheny Room #2 :

The Good, The Bad, and The TV Western

Speakers: Thomas J. Brown

Faculty Advisor: Dr. Mary Beth Leidman

Thick Southern Drawl: Voice-Over Narration in "Blood Simple," "The Big Lebowski," and "No Country for Old Men"

Speakers: Sarah L. Daxton

Faculty Advisor: Dr. Thomas Slater

Making Place Without Landscape: A Look At How Video Games Create Spatial Imagery Without Building The Location In-Game

Speakers: Dustin Mendus

Faculty Advisor: Dr. Gail S. Sechrist

Female Characters in Video Games: Shouldn't They Be As Awesome As Us?

Speakers: Melissa R. King

Faculty Advisor: Dr. John Branscum

4:30 – 6:30

**Undergraduate Juried Art Exhibition
Kipp Gallery, Sprowls Hall**

4:30 – 5:15

**Reception for Scholars and Faculty
Sprowls Hall**

5:15 – 6:30

**Awards Ceremony and Program
McVitty Auditorium, Sprowls Hall**

Poster Session Details

HUB Ohio Room

Time: 8:30-3:30

Setup 7:30am to 8:30 am; Q&A 11:20am–1:30pm

P01 *A Database Study of the Trans Effect in Square Planar and Octahedral Metal Complexes*

Student: Daniel Kozina

Faculty Advisor: Dr. Ronald F. See

P02 *A Study on the Effects of Copper as a Stressor on the Life History and Physiological Characteristics of Multiple Generations of Zebra Fish, Danio rerio*

Student: Rebecca L. Beadling

Faculty Advisor: Dr. David Pistole

P03 *A Water Quality Study of Marcellus Gas-Shale Drilling Impact at Beaver Run Reservoir*

Student: Jason P. Wolfe

Faculty Advisor: Dr. Nathan R. McElroy, Dr. Brian W. Okey

P04 *Analysis Of Abandon Mine Drainage (AMD) Impacts on Bear Run, Indiana County, PA During Times Of Abnormally High Precipitation in 2011*

Students: Heather E. McGinnis

Faculty Advisor: Dr. Katherine L. Farnsworth

P05 *Analysis of Green Roof Water Retention and Insulation Properties*

Student: Jacob R. Good

Faculty Advisor:

P06 *Assessing The Impact on the Digestion Of Biogenic Silica From Deep Sea Sediment And its Impact on the Eolian Dust Component*

Students: Michael A. Russo

Faculty Advisor: Dr. Steven A. Hovan

P07 *Basin-wide synthesis of thermal maturation indices in the Paleozoic Appalachian Basin*

Student: Patrick R. Boyle

Faculty Advisor: Dr. Thomas P. Gerber

P08 *Climate Change Vulnerability Index in Relation to Pennsylvanian Lepidoptera*

Student: Ashley E. Joa

Faculty Advisor: Dr. Timothy J. Nuttle

P09 *Comparing Lake and Soil Geochemistry to Understand Limitations on Biology in Antarctica*

Student: Renee M. Heldman

Faculty Advisor: Dr. Michael A. Poage

P10 *Conditional Study of the Applications of the Wacker Process in Organic Synthesis using Palladium Catalysts*

Student: Marissa A. Pierson, Lindsay E. Matolyak

Faculty Advisor: Dr. Carl R. LeBlond

P11 *Detection of Tomato Mosaic Virus (ToMV) Using One Step Reverse Transcription PCR*

Students: Charles M. Voyton, Alan C. Kessler

Faculty Advisor: Dr. Bharathan Narayanaswamy, Dr. Seema Bharathan

P12 *Effects of In-situ Wetlands on Abandoned Mine Drainage on the North Fork of the Twolick Creek Watershed: Commodore, Pennsylvania*

Student: Joshua D. Putt

Faculty Advisor: Dr. Karen R. Cercone

P13 *Isolation and Modification of E. Coli Release Factor 3*

Students: Edward W. Sittler, Ronald C. Stewart

Faculty Advisors: Dr. Jonathan N. Southard

P14 *Long Term Social Interactions Enhance Circadian Setting in Mice*

Students: Kelly Wroblewski

Faculty Advisor: Dr. Megan E. Knoch

P15 *Manipulation of Elongation Factor 4 for Alteration of Substrate Binding*

Students: Rebecca K. Hartley, Jonbrandon Mullholand

Faculty Advisor: Dr. Jonathan N. Southard

P16 *Oxidation of Alcohols to Corresponding Esters using N-bromosuccinimide in Aqueous Media*

Student: Mitchell C. Stadler

Faculty Advisor: Dr. Justin Fair

P17 *Performance of Native Pennsylvania Wildflowers in North American Green-roof Ecosystems*

Student: George E. Tickerhoof III

Faculty Advisor: Dr. Timothy J. Nuttle

P18 *Predicting Relative Activities of Enzymes Using Computed Chemical Properties*

Student: David B. Williams-Young

Faculty Advisor: Dr. Jaeju Ko

P19 *Preliminary Stream Site Characterization for Quaker Run, SCRA Site 19*

Student: Tyson R. Milbrand

Faculty Advisor: Dr. Karen R. Cercone, Dr. Michael A. Poage

P20 *Purification and Folding Characterization of E. coli Peptide Chain Release Factor 1 (RF-1)*

Student: Stephen B. Shiring, Chia Hui Yap

Faculty Advisor: Dr. Jonathan N. Southard

P21 *Reactivation of Compressional Tectonics on Pre-Existing, Rift-Related Normal Faults in SW Taiwan: Evidence from Strain Inversions of Active Seismicity*

Student: Ellen A. Lamont

Faculty Advisor: Dr. Jonathan C. Lewis

P22 *Thermal Alteration of Johnston Site Lithic Materials*

Student: Michael S. Deemer

Faculty Advisor: Dr. Beverly M. Chiarulli

P23 *Stream Discharge Trends and Patterns within the Great Lakes Region*

Students: Stephen G. Norair

Faculty Advisor: Dr. Karen R. Cercone, Dr. Katherine L. Farnsworth

P24 *Synthesis and Characterization of the Solid Solution $\text{Na}_2(\text{Zn}_{1-x}\text{Co}_x)\text{GeO}_4$*

Students: Rebecca L. Beadling

Faculty Advisor: Dr. Charles Lake

P25 *Slip Partitioning Offshore Southeast Taiwan and Southward Propagation of the Longitudinal Valley Fault: Evidence from Strain Inversions and Statistical Analyses*

Student: Daniel J. O'Hara

Faculty Advisor: Dr. Jonathan C. Lewis

P26 *Utility of Conodonts For Refining the Age of the Upper Stonehenge Transgression And Basal Nittany Regression in the Central Appalachians*

Student: Caz M. Bejger

Faculty Advisor: Dr. John F. Taylor

P27 *Smartphone Sensors and Detecting Road Anomalies*

Student: SaraJane E. Parsons

Faculty Advisor: Dr. Yu-Ju Kuo

P28 *Persea Americana as Source of Biofuel*

Student: John K. Kamau

Faculty Advisor: Dr. Jeffery L. Larkin

P29 *The Portrayal of Police Corruption in the Media*

Student: Matthew S. Grassi, Dane C. Sampson, Charles T. Livick, Raeanne N. Barrett, Victor Q. Costello

Faculty Advisor: Dr. Robert J. Mutchnick

P30 *The Language and Literacy Gap*

Student: Bridgett C. Ryan

Faculty Advisor: Dr. Kelli R. Paquette

P31 *The Effect of Religious Similarity and I-sharing on Platonic and Romantic Relationships*

Students: Thomas W. Trautman

Faculty Advisor: Dr. Anson E. Long

P32 *Swim and Recreation Program*

Students: Teri L. Gilmore

Faculty Advisor: Dr. Sarah Lynn H. Brown

P33 *Spatial Analysis of Senior Citizen Accessibility to Community Assets and Amenities: Indiana Borough and White Township, Pennsylvania*

Student: Kenneth A. Tinkey, Ryan C. Mears

Faculty Advisor: Dr. John E. Benhart

P34 *Women and Slavery in the Biblical World*

Students: Amanda M. Bracken

Faculty Advisor: Dr. Tawny Holm

P35 *Reducing Subgroup Score Differences in Academic Prediction*

Student: Truman J. Gore, Leann M. Bowman, Caitlyn A. George

Faculty Advisor: Dr. Mark V. Palumbo

P36 *"GIS Development and Assessment for the Municipal Authority of Westmoreland County - Beaver Run Water Monitoring Project"*

Students: Dana A. Turgeon, Alexander P. Rudowski, Aaron K. Shaffer, Alyssia E. Chapman

Faculty Advisor: Dr. John E. Benhart

P37 *Project-Scoping in Powdermill Nature Reserve Using GIS*

Students: Victor R. Velez, Rebecca West

Faculty Advisor: Dr. John E. Benhart

P38 *A First Hand Perspective in Italian Renaissance Art*

Students: Jarret M. Wasko

Faculty Advisor: Dr. Steven C. Loar

P39 *Undergraduate Social and Non Social Error Monitoring*

Student: Katrina C. Owens

Faculty Advisor: Dr. Lisa C. Newell

P40 *Patterns of Visual Attention for Rural/Urban Scenes: A Change Blindness Study*

Students: Ryan J. King

Faculty Advisor: Dr. Susan T. Zimny

P41 *Palliative Care for Children and Their Families*

Student: Katlyn M. Cekovsky, Jacqueline A. Clark, Ashley M. Bowser, Lura I. Repa

Faculty Advisor: Dr. Michele A. Gerwick

P42 *Music Lyrics, Drug References and Crime*

Students: Joshua S. Paulson, Mellissa V. Scott, Tyler P. Kelly, Joshua L. Shuster, Nancy J. Luckey, Tiffany L. Carter

Faculty Advisor: Dr. Robert J. Mutchnick

P43 *Magnetic Susceptibility at the Mary Rinn Site*

Student: Brandon G. Foster, Emily E. Poeppel

Faculty Advisor: Dr. Beverly M. Chiarulli

P44 *"GIS Development for Public Safety Code Violations"*

Students: Michael M. Bowser, Manuel C. Wilson, John W. Wick, Alexander M. Shubra

Faculty Advisor: Dr. John E. Benhart

P45 *Indigo Bus Project and TIRAMASU Data Development*

Students: Andrew M. Singer, Kyle M. Ritenour, Todd R. Walters

Faculty Advisor: Dr. John E. Benhart

P46 *Indiana Borough Parking Inventory/Analysis*

Students: Kelsey L. Sevin, Keith J. Reesman

Faculty Advisor: Dr. John E. Benhart

P47 *Health Benefits of Regular Yoga Practice at IUP*

Students: Emily E. Poeppel

Faculty Advisor: Dr. Victor Q. Garcia

P48 *GIS Development for the Jeannette Redevelopment Authority*

Students: Christopher D. Townley, Mark E. Shaffer, Elizabeth A. Thomas

Faculty Advisor: Dr. John E. Benhart

P49 *Investigation of Polished Bone at the Johnston Site*

Students: Laura J. Ellyson

Faculty Advisor: Dr. Sarah W. Neusius

P50 *Reactions to Psychological Abuse as a Function of Gender, Actor Intention, and Target Response*

Student: Samantha M. Rakowski

Faculty Advisor: Dr. Maureen C. McHugh

P51 *Poetry & Art: A Lesson Based on Connecting with Literature*

Students: Amanda L. Stamm

Faculty Advisor: Dr. Linda C. Norris

P52 *GIS Development and Analysis for the Western Pennsylvania Conservancy, Sinnemahoning and Portage Watershed*

Student: Paul W. Jackel, Elliot D. Lesser

Faculty Advisor: Dr. John E. Benhart

P53 *Effective Tools Preventing Falls in the Hospital for those Aged 50 and Older*

Student: Christine E. Marks

Faculty Advisor: Dr. Michele Gerwick

P54 *Classroom Management Strategies: Planned Ignoring & "Catching Them Being Good"*

Students: Kristin R. Long, Lauren E. Meuschke

Faculty Advisor: Dr. Janice M. Baker

P55 *Effectiveness of Graphic Organizers with Students with Emotional Disturbance in Reading*

Students: Kristin R. Sestina

Faculty Advisor: Dr. Laurie Nicholson, Dr. Janice M. Baker

Juried Art Exhibitors

Beth Plakidos

Composition 6

Mixed media on canvas

Daniel Zobel

Creature Cabinet

Maple and ash

Seth Barnes

Receptary

Oil on canvas

Ally Mitchell

Inside

Oil on raw canvas mounted on masonite

Andrew Fecik

Trivet

Mixed media

James Raneri

Fertility Bracelet

Red brass

Mary Beth Heicher

Sun Bleached Bones

Bone and sterling silver

Nick Volpe

Acquiesce

Red brass, patina

Melissa Davenport

Woven Chain with Pearls

Sterling silver, pearls

Mark J. Regitz

Wire Tea Set

Wire

Jordan Frantz

Teapot

Copper, patina

Kyla Groat

The Straw that Broke the Camel's Back

Patrick Camut

Kissing Machine

Alison Terndrop

Christos Peyagos

Mixed media on board

Mike Guy

City Life

Copper etching

Chelsea McDonnell

Consumption

Oil on canvas

McKenzie Gross

Night Drive

Oil on masonite

McKenzie Gross

In Tall Buildings

Acrylic and embroidering on tea stained fabric

Nicolena Loshonkohl

Ode to my Mother and the Framed Picture of Her Dead Dog

3 color screen print on BFK

Nicolena Loshonkohl

My Troubling Decomposition of Mind

Rachel Horner

Father and Daughter

Print

Chelsea Long

Taken Away

Oil on desktop

Stephanie Martin

Sight

Print Media

Karina Robarge

Clean Wind (Brooches)

Fabricated copper

Special Thanks to

Forum Judges

Poster Session Judges

Business Case Competition Judges

Sigma Xi Judges

Student Juried Art Exhibition Judge