

Poster Session	Poster Number	First Author	Project Title	2nd Author	3rd Author	4th Author
II	109	Aaron J Crown	North American Hoganas Automated Packing Station	Adrienne C Tubo	Brandon J Schuerman	
II	90	Alberto M Vanhecke	UPJ Photography Works	Bryce P Griffie	Sharon Bryner	Samantha R Albert
I	98	Alex B Zaman	Civil Engineering History	Jonathan L Nicoloff		
I	54	Alexander C Taylor	BoyDon't Cry a Film from Director Kimberly Peirce: A Discussion of Hate Crime			
I	13	Alexandra E Popovich	(Green Chem Paper)			
I	14	Alexandra E Popovich	Anti-cancer activity of Ruthenium(II) complexes on BEL-7402 cells by ROS-mediated mitochondrial pathway			
I	75	Alexandra Marra	Most Productive Aggregates in Mine Reclamation Projects			
II	49	Alexandra R Smith	Ideological Feminist Criticism of The Walking Dead Comics			
II	99	Alice Marie Gotwald	Philadelphia City Hall	John W Giffin		
I	L28	Allen Emert	Garage Safety and Security System	Jonathan J Miller		
I	70	Allison C Rizzo	Fire Suppression System for an Off-Shore Oil Rig	Nicholas T Rhoads	Joshua F Maruska	
I	124	Alyssa M Wharton	Vaccinations and Immunizations? Let Me Check to See What Google Says.	Patty J Michael		
II	100	Alyssa R Manotti	Kinzua Railway Viaduct	Christian G Yoder		
I	15	Amy Boors	A Light-Driven Photosensitive Model to Drive Ammonia Production			
I	16	Amy Boors	Hydroponic Production is both Environmentally and Economically Self-Sustaining			
I	22	Andrew S Constable	Capturing Hg2+ Ions by Mimicking functions of Mercury Resistant-Bacteria			
II	101	Anthony J Verno	Mason-Dixon Line	Douglas E Berkebile		
II	71	Anthony M Ugoletti	Service Weapon Smart Camera	Steven A Stotz	Ryan D Orlovsky	
I	L20	Ashlee Marie McMullen	Artificial Pancreas Simulation	Dillon J Boyer		
I	123	Aubrey L Farrow	Health Risk Behaviors and Sensation Seeking in First- and Continuing-Generation College Students			
II	76	Benjamin B Shirley	Class II Injection Well Volumes and Earthquakes in Oklahoma			
I	102	Bernard J Dunegan	Johnstown Inclined Plane Facilities Improvement	Dakota William Breindel	Brent A Barron	Matthew T Kinney
I	7	Bohan Qu	It Is Just a Number: 12345679 and Its Properties			
I	21	Brandon J Cook	Dinitrosyl Iron Complexes That Trigger Apoptosis in Cancer Cells			
II	110	Brendan G Shue	Smart Drum Mining System	Robbie D Bloom	Randal E Moore	
II	37	Brenden Bowser	Friedrich von Steuben: Social Misfortune Reviving the Revolution in the Colonies			
I	111	Brennan A Kline	GJWA Mineral Point Feed Water System Analysis and Design	Ian E Palov	Clayton S Watson	
II	130	Brian Z Burkhouse	The NDT Track-Bot	Kevin W McCormick		
I	104	Bunny L Harlan	Civil Engineering Historical Landmark-The Rockville Stone Arch Bridge			
I	1	Cameron J Livingston	Greener Campus Vehicles			
II	38	Cameron P Carr	The Battle of Bunker Hill: A Siege to End a Siege			
I	112	Chase C Peltier	Attachments Plus Paint Cart and Assembly Fixture Design	Nicholas T Roberts	Jared D Heschke	Brandon L Hines
II	39	Christopher W. Sheldon	The Shot(s) heard round the world, the battles of Lexington and Concord			
I	105	Cody Brown	Redesign of Maple Hall	David E Adams	Jason M DeBone	
II	23	Cody M Sabo	Decomposition of the Lead-Halide Perovskite Solar Cell			
II	24	Corey Coleman	The Biochemical Mechanism of Cisplatin and its Cellular Resistance			
I	61	Courtney Hunsinger	Acid Mine Drainage Effects on Paint Creek and Stonycreek River			
I	62	Courtney Hunsinger	Determining the Origin of Granodiorites in the Pennsylvanian Piedmont Using Geochemical and Petrographic Methods			
I	L27	Curtis V Hicks	A Methodological Comparison of Gender	Forest David Tuttle	Sarah Ashley Baldwin	
I	125	Cydney J Green	Internet Thuggin	Elaine A Smith		
II	L26	Daniel D Warfield	Parametric Design and Simulation of Additive Manufacturing			
II	106	Daniel J Adamczyk	Pitt Johnstown Campus Mall Tunnel System	Steven J Finnegan	Jeramy J Bittinger	
II	113	David L Miller	North American Höganäs Cooling Loop Addition	Brady R Miller		
I	77	David N Sehn	Connecting Plate Movement around the World with Earthquake Occurrences			
I	107	Devonair S Cook	Strarrucca Viaduct			
I	108	Dominic J Houck	Delaware Aqueduct			
II	4	Dustin Charles Brown	Diruthenium(I) tetracarbonyl carboxylate complexes in fluorous biphasic catalytic systems	Isaac J Stern		
II	55	Eden A Cohen	An Exploration of Nude Art and its Exhibition through Gregory Crewdson			
I	91	Ellen A Brady	Structure of Ornery Duets Yellow-naped Amazon, Amazona auropalliata	Emma Gyurisin	Owen P Small	Samantha R Albert
II	78	Eric R Trevorrow	Commodity Conundrum: The Link between Commodities and Country Growth			
I	45	Erin L Penzelik	Mapping of a Tourist Attraction: Ohiopyle State Park			
I	40	Erin M Cain	Noise			
I	121	Erin Nicole Barefoot	Risk Reduction Sharing Behavior Between Partners			
II	11	Evan William Gretok	Near-Range Visible Light Communication System Using Wavelength Division Multiplexing			
II	12	Evan William Gretok	The ConsciLux Intelligent Lighting System	Jeremy R Chotiner		

Poster Session	Poster Number	First Author	Project Title	2nd Author	3rd Author	4th Author
II	95	Garrett J Varner	The Horseshoe Curve	Jake A Arden		
II	46	Halee J Sesock	Monitoring Highway Construction along Route 56 Using Aerial Technology			
I	56	Haleigh Raye Heaton	Obscenity Law and Artistic Expression: The Controversial Photography of Bill Henson			
I	79	Haley A Heidler	The PIANO of Science: Petroleum Forensics on a Local Service Station			
I	47	Haley R Romanko	Pennsylvania Prison Distribution and Inmate Population Information			
II	34	Henry J McKenzie	Using Cobalt Complexes as a Catalyst for Hydrogen Production			
I	L17	Holden Michael Jones	Multi-Population Genetic Algorithm for the Optimization of Computer Image Recognition Training			
I	65	Holli E Wilt	Land Sliding through El Nino			
I	3	Isaac J Stern	Labratory Gloves and Garment Recycling Program			
I	27	James Maloney	Synthesis of substituted N-phenylmaleimide and its Diels Alder reactions	Landon Benyack	Mark Nathaniel	
II	114	James R Geyer	Redesign of Railroad Signal Housing	Jacob E Smith	Tyler R Freidhof	
I	36	Janine Elizabeth Hunyadi	Sexism and Evidence to Convict	Brittany A Weiss	Demar Marvin Watson	
II	53	Jim Alexander	Senior Research Projects in Political Science			
I	41	Jonas N.S. Kiefer				
II	66	Jonathan J Pastuch	Saving Bens Creek from Orange Doom			
II	115	Jordan T Lock	Energy Absorbing Foam Study	Steven G Bucci	Christopher Schneider	
II	67	Joseph W Ponticello	The Influence of Coarse Grain Aggregates on Concretes Strength			
I	57	Josephine Bagnato	S&M Photography, Artistic Expression, and Obscenity: An Examination of Nathalie Daoust s Tokyo Hotel Story			
II	96	Joshua D Voight	Pennsylvania Turnpike	Alexander Michael Roper		
II	116	Joshua M Naugle	PULTRUSION MACHINE HEATING CONTROL PANEL REDESIGN			
I	17	Josiah R Bailey	Dynamics of peptide bonds: A study of N-acetyethanolamine using chirped-pulsed Fourier transform microwave spectroscopy	Timothy McMahon		
I	18	Josiah R Bailey	Vending Misers: A Cooler Way to a Greener Campus			
II	81	Justin Douglas Towsey	Walnut Street Bridge	Jonah S Lambie		
II	72	Justin S Hogan	Polaris RZR 800 Bed Transformation	Adam P Sube	Cody W Austad	
II	5	Justine E Bennett	Not So Cold: Examining the Persuasion and Character Development in "Heart of Ice"			
II	92	Kaitlyn M Eckley	Do Chickadees Talk the Dialect Talk	Gwendolyn M Illar		
I	60	Karl V Seibel	Evaporative Cooling	Colin H Michalski	John J Blankenship	
I	88	Kayla M Luprek	Reassessment of the Pedicularis sudetica Taxonomic Complex: Species or Subspecies?	Cole Miller	Sokoamshe Bayetinna Ogun	
I	50	Kelsey M Defelice	Celebrities Self-Disclosure on Instagram			
II	131	Kevin E Eshelman	Digital Racing Flag Display System	Garrett F McKee		
I	127	Kyle D Quicquaro	Chain Hoist Test Fixture	Sarah E Dikum	Francis J Bonacci	
I	117	Kyle J Skelly	SY40AE Double Stack Core Box	Tyler L Bacco		
I	42	Kyler J Smith	Blood; Formless and Nameless			
II	86	Kylie Hogan	Oral History of the Autism Spectrum Disorder			
II	9	Leah Rose Fecik	Evaluating behavior of Chironomus riparius when chronically exposed	Ashley N May	Chelsea M Vojtash	Emily R Hanwell
I	L19	Lindsey Payton Bonsell	The Snake in the Garden: Images of Lilith in Medieval and Renaissance Art			
I	51	Logan E Chesleigh	Military Marriages: How Spousal Communication is Affected During the Post-Deployment Period			
I	L25	Logan P Corle	Dominion Phasor Measurement Unit Panel	Christopher M Horten		
II	63	Lorin Nicole Simboli	Estimating Earthquake Probability and Recurrence Intervals			
II	64	Lorin Nicole Simboli	Petrographic and Geochemical Investigation of the Bells Mill Road Ultramafic Body of Southeastern, PA			
I	48	Lu Yu	Applied GIS Mapping to Available Chinese Economic Data			
I	L18	Madison B Neill	Legend or Hoax: Agent 355: The Unknown member of the Culper Ring, 1778-1781			
II	52	Mariah Christine Butchko	Free your Curly Hair: Exploring Curly Hair Bias and the Emphasis of Racial Identity			
II	25	Mark Nathaniel	Gadolinium (III) Complexes as Contrast Agents in Magnetic Resonance Imaging			
I	26	Mark Nathaniel	Campus Sustainability			
I	58	Matthew K Bugli	Family Photos or Child Pornography: Examining the Works of Wyatt Neumann within the Context of Obscenity Law			
II	132	Matthew L Burket	Automated PetCare System	Daniel J Ritter		
I	68	Matthew Lukas Leger	You Shook Me All Night Long: How Magnitude Affects the Frequency of Aftershocks			
I	103	Matthew T Kinney	Advanced On-Lot Wastewater Treatment Technology Developement			
I	128	Matthew Terrence Kocian	Tailgate Welding Fixture	Bryce D Smith	Travis Moulayianis	
I	35	Megan E Kostan	Platinum Based Complexes combined with NSAIDs Assist in Stopping the Growth of Cancer Cells			
II	L21	Meredith Kline	A Matter of Balance	Taylor M Edmiston		
I	L22	Michael J Kawka	Optimization of a radial compressor jet engine			

Poster Session	Poster Number	First Author	Project Title	2nd Author	3rd Author	4th Author
I	93	Michael J McConnell	Preventing avian window collisions			
II	82	Michelle M Karnavas	Dunlap's Creek Bridge	Ashley A Morgan		
I	94	Molly K Dupin	The Classification of Dialects Present in the Yellow Naped Amazon, Amazona auropalliata			
I	89	Nathan A Lieb	Genetic Genetic Variation of the Wild Lily of the Valley and Starflower Plant Species	Erica T Enarusai	Bryce P Griffie	Allana Brooke Weaverling
II	L23	Nicholas D Apel	UPJ Retains Native Environment Since its Beginning			
II	69	Olivia N Wolff	Three-Dimensional Modeling of Nazca Plate Subduction			
I	43	Patrick J Stahl	Anymore			
II	83	Rachel A Stockert	The Smithfield Street Bridge	Jacob D Zembower		
I	8	Raul Andres Sanchez	Mountain Cat Greens	Benjamin Jacob Blemler	Christopher A Johns	
II	126	Rebecca Joy Smith	Family Dynamics: How Being a Member in a Non-Traditional Family Impacts the Individual			
I	118	Richard P Young	System Analysis and Design	Zachary J Barrett		
II	28	Ryan J Daly	Myelin repair during caudal segment regeneration in the earthworm, Eisenoides carolinensis			
II	29	Ryan J Daly	Strategy for Synthesis of Upconversion Nanoparticles and Biological Applications			
II	10	Ryan R Wilson	Evaluation of Chironomus diversity in the waters in and around the Pitt-Johnstown campus	Dorothy J Smedberg		
I	73	Samuel V Louderback	Going Hot: Terminal Ballistics Assessment of 9mm Cartridges			
I	74	Samuel V Louderback	Snaking Through the Pennsylvania Piedmont: Serpentinites of Southeastern Pennsylvania			
I	122	Sarah M Rogers	Risk Aversion Effects on Sharing Behavior Across Genders	Victoria A Fogel	Theresa Arlene Mitchell	
II	30	Shane D Beichner	Classroom to Classroom Recycling Education Program			
II	31	Shane D Beichner	Metal Organic Frameworks for Lighting Purposes			
I	129	Shannon D Burket	Stress and Sleep Disturbances In First and Continuing Generation College Students	Emily Clements		
I	L29	Shawn David Kaiser	Windber Stadium Access Road	Tyler M Tiesi	Cody L Kiser	Ryan T Fyock
I	87	Sokoamshe Bayetinna Ogun	The Medicine for Medicine			
I	59	Steven A Paterini	The Shaw Memorial: The Changing Public Opinions of Civil War Monuments			
I	2	Timothy McMahan	LED Lighting: The Energy Efficient Way			
I	19	Todd Allen Harteis	A Survey of Metal-Based Anti-Cancer Drugs That Have Been Over Looked in Medical Inorganic Chemistry			
I	20	Todd Allen Harteis	Implementation of an Environmentally Conscious Food Waste Alternative on the University of Pittsburgh at			
I	119	Tolulope Israel Mayomi	Johnstown Campus	Ibrahim Baba Ahmed		
II	120	Tori L Lichtenfels	The Magloop Propulsion System	Shannon R Marko	Cole W McGunigale	
II	84	Troy D Dunkle	Line of Bore - Line of Sight Calibration System			
I	85	Tyler A Hill	Philadelphia City Plans			
I	80	Tyler A Norris	Dante's Purgatorio and the Not So Seven Deadly Sins			
I	80	Tyler A Norris	Brushing Away Mysteries of Ancient Marine Life: a Paleontological Survey of the Brush Creek Marine Zone			
II	97	Tyler Yocolano	Water Supply System VFD Justification			
II	6	Victoria Patricia Kelly	Ideologies in Ex Machina: An Analysis of Masculinity and Individualism			
II	44	Wyatt Deutsch	A Deeper Dive into Depression			
I	L24	Zachary Steven Saich	Frankstown Road Roundabout	Brendan D Balint	Luke B Gindlesperger	
I	32	Zackery E Senock	New organic dye synthesis for use in Dye Sensitized Solar Cells	Jacob T Gelsing		
I	32	Zackery E Senock	Simultaneous Solubility of CO2, SO2, and H2S in Ionic Liquid 1-hexyl-3-methylimidazolium			
I	33	Zackery E Senock	bis(trifluoromethanesulfonyl)amide ([C6mim+][Tf2N-]): A Monte Carlo Simulation Study	Claudia R Torrillo	Geeta Verma	