BIOLOGY - ORAL

PLACE	#	TITLE & AUTHORS
1 ST	1	Identifying Potential Brook Trout (Salvelinus fontinalis) Populations Based on
		Summer Temperature and Watershed Characteristics
		Megan Hazlett (Scott Wissinger, Chris Shaffer), Allegheny College - Ecology
2 ND	7	Using sectioned otoliths to estimate growth rates of bluegills <i>Lepomis macrochirus</i> and pumpkinseeds <i>Lepomis gibbosus</i> from Presque Isle Bay, Lake Erie Mikkela Cabanillas, (Greg Andraso), Gannon University - Organismal Biology

CHEMISTRY, ENVIRONMENTAL SCIENCE & PHYSICS – ORAL

PLACE	#	TITLE & AUTHORS
1 ST	10	Characterization of the Hydroxyl Radical-Water Complex using Matrix Isolation
		Infrared Spectroscopy
		<u>Tracy Jones</u> , (Jay Amicangelo), Penn State Behrend - Chemistry
2 ND	9	Theoretical Study of Disordered Graphene
		<u>Victor Barone</u> , (Blair Tuttle), Penn State Behrend - Physics

COMPUTER SCIENCE, ECONOMICS & MATHEMATICS – ORAL

PLACE	#	TITLE & AUTHORS
1 ST	39	Average distance between points on a regular n-gon to the points inside
		Bailey Hopkins, (Michelle Previte, Bruce Wittmershaus), Penn State Behrend -
		Mathematics
2 ND	15	Emotion Detection for IoT Applications
		Kyle Jonas, Morayo Ogunsina, Karina Cuadrado (Abdallah Abdallah), Penn State
		Behrend - Computer Science/Software Engineering

ENGINEERING - ORAL

PLACE	#	TITLE & AUTHORS
1 ST	25	360 Videos and Virtual Reality-Based Teaching Modules to Teach Industrial
		Engineering Concepts
		Bradley Nulsen, Andrew Gerber, (Omar Ashour), Penn State University - Erie, The
		Behrend College - Industrial Engineering/Technology
2 ND	22	Image Capture Performance for Computer Vision in Edge Compute Environments
		<u>Theodore Stangebye</u> , Joeseph Lovin, (Timothy Mohr), Grove City College - Electrical
		Engineering/Technology

HISTORY & CULTURAL STUDIES - ORAL

PLACE	#	TITLE & AUTHORS
1 ST	30	Behrend Chessmen: A Collection of Early Reproduction Chess Artifacts
		Aurora Paterson, (Leigh-Ann Bedal), Penn State Behrend - History
2 ND	32	Supporting Student Survivors: The Analysis and Creation of a Trauma-Informed
		Resource for Sexual Violence Survivors at Allegheny College
		Jordann Kline, (Heather Moore Roberson), Allegheny College - Community and Justice
		Studies

PSYCHOLOGY - ORAL

PLACE	#	TITLE & AUTHORS
1 ST	38	Effects of Victimization and Social Media Use
		<u>Leanne Confer</u> , <u>Marna Owens-Bailey</u> , <u>Samantha Conway</u> , (Charisse Nixon, James
		Hodge), Penn State Behrend - Psychology
2 ND	36	Issues in Community-based Research
		<u>Jack Parker</u> , <u>Bethany Pimental-Bowman</u> , (Monali Chowdhury), Allegheny College -
		Psychology

BIOLOGY I – POSTER

PLACE	#	TITLE & AUTHORS
1 ST	5	Regulation of dihydrofolate reductase (DHFR) gene expression in human breast
		tissue cell lines
		Parmvir Deo, Meghan Robick, (Prasad Dalvi, Gary Vanderlaan), Gannon University - Cell
		& Molecular Biology
2 ND	2	Role of SCAMP3 in β-Amyloid Production and Secretion
		Maura Mobilia, Mariam Alkhafaji, (Quyen Aoh), Gannon University - Cell & Molecular
		Biology

BIOLOGY II – POSTER (TIE – RESULTED IN TWO FIRST PLACE)

PLACE	#	TITLE & AUTHORS
1 ST	8	Assessing the stream health of PA tributaries to Lake Erie using macroinvertebrates
		Cytalia Crosby, Maggie Dolak, Christopher Ross, Kaylee Luchansky, (Chris Dempsey),
		Gannon University – Ecology
1 ST	14	The impact of tadpole predation risk on frog morphology throughout development
		Zhuoyan Si, (Lynne Beaty), Penn State Behrend - Ecology

BIOLOGY III – POSTER

PLACE	#	TITLE & AUTHORS
1 ST	25	Effects of <i>Conus striatus</i> Venom on the T-type Calcium Ion Channel Cav3.2 Madeleine Stauffer, (Lauren French), Allegheny College - Neuroscience
2 ND	24	Effects of Conus textile Crude Venom on the Kv4.2 Ion Channel Expressed in a Xenopus laevis Model Andrea Pence, (Lauren French), Allegheny College – Neuroscience

BIOLOGY IV - POSTER

PLACE	#	TITLE & AUTHORS
1 ST	27	Strain Dependent Vancomycin Sensitivity and the Influence of Culture Media on
		Antibiotic Inhibition in Haemophilus ducreyi
		<u>Delaney Lacey</u> , (Tricia Humphreys), Allegheny College – Microbiology
2 ND	32	Comparison of the Evolutionary Rates of Streptomycin Resistance in Three Common
		Agents of Urinary Tract Infection
		Michael Stewart, Parmvir Deo, Matthew Dilts, Ishveen Saini, (Prasad Dalvi, Gary
		Vanderlaan), Gannon University - Microbiology

CHEMISTRY, ENVIRONMENTAL SCIENCE & PHYSICS – POSTER (TIE – RESULTED IN TWO FIRST PLACE)

PLACE	#	TITLE & AUTHORS
1 ST	33	Multi-Site Directed Mutagenesis of Serine Residues to Glutamate in the C-Terminal
		Domain of Saccharomyces cerevisiae to Mimic Phosphorylation
		<u>Dustin Williams</u> , (Java Villemain), Indiana University of Pennsylvania - Biochemistry
1 ST	37	Evaluation of Acceleration Due to Gravity Using Standard Preliminary Physics
		Laboratory Equipment
		Ethan Fontana, (Chuck Yeung, Thomas Flanagan), Penn State Behrend - Physics

COMPUTER SCIENCE, ECONOMICS & MATHEMATICS – POSTER

PLACE	#	TITLE & AUTHORS
1 ST	44	Analyzing Maximum and Minimum Scores of the Game 2048
		Zachary Aszalos, (David Prier), Gannon University - Mathematics
2 ND	45	Location and Scale Parameter Estimation of Burr Type III Distribution by Monte Carlo
		Markov Chain (MCMC) Procedure
		Kyle Maraffi, Adam Majewski, Luke Pilarski, Mariah Kacey, (Woosuk Kim), Slippery
		Rock University - Mathematics

ENGINEERING – POSTER

PLACE	#	TITLE & AUTHORS
1 ST	48	The Development of Processing Parameters for Industry Integration of Advanced
		High Strength Steels (AHSS)
		Jackson Craig, Austin Hankey, (Paul Lynch), Penn State Behrend - Mechanical
		Engineering/Technology
2 ND	50	Integrating 3D Sand-Printing into the Pennsylvania Metalcasting Industry
		Jackson Craig, Austin Hankey, Elizabeth Gaughan, (Paul Lynch), Penn State Behrend -
		Mechanical Engineering/Technology

PSYCHOLOGY I – POSTER

PLACE	#	TITLE & AUTHORS
1 ST	58	How Mood is Affected by Type of Dog Stimulus in College Students
		<u>Taylor Wood</u> , <u>Kayla Dick</u> , (Shariffah Dawood), Penn State Behrend - Psychology
2 ND	69	Reading and Writing Through Emergent Genres
		Hallie Myers, Madison McFeely, Mariah Knott (Lisa Ciecierski), Penn State Behrend -
		Education

PSYCHOLOGY II – POSTER

PLACE	#	TITLE & AUTHORS
1 ST	62	Using Functional Connectivity to Delineate Object Familiarity
		<u>Jennifer Mosley</u> , (Christopher McNorgan, Erica Edwards), University at Buffalo -
		Psychology
2 ND	65	Video Game Genres' Effects on Academic Performance
		James Lisi, Donald Fromknecht, Matt Hammel, (Shariffah Dawood), Penn State
		Behrend - Psychology