

## 2004 Undergraduate Student Summer Research Fellowships

Each grant list individual student researcher(s) with respective cooperating faculty member(s) in parenthesis.

### SAM AND IRENE BLACK SCHOOL OF BUSINESS

- Peter Binotto (James Kurre) - \$1,200  
"Is Erie County Incubating Enough New Businesses"
- \*Michael Hammill (James Kurre) - \$1,200  
"Is It Worse to be Poor in a Big City? Spatial Cost of Living Differences and Their Effect on Poverty Thresholds"
- Kenneth Schwab (Barry Weller) - \$1,200  
"Seasonal Adjustment of Erie County Employment Data"
- Ross Zambanini (James Kurre) - \$1,200  
"Erie Bankruptcy Pattern Compared to the Nation"

### SCHOOL OF ENGINEERING AND ENGINEERING TECHNOLOGY

- Arizona Alburg (Thomas Briselden) - \$1,190  
"Material Optimization Using a Homogeneous Mixture of Silicon, Silicon Carbide, and Phenolic Resin"
- Andrew Deter (Oladipo Onipede and James Sonnenmeier ) - \$1,200  
"Aerodynamic Performance of SMA Twisted Airfoil Sections"
- Jared Heigel (John Roth) - \$1,200  
"Analysis of Electrically Aided Machining Processes"
- Kristopher Parrish (Thomas Briselden) - \$1,200  
"Formation of SpyroCor Inserts without Using a Mold"
- Joseph Piazza (John Roth) - \$1,200  
"Analysis of Cryogenic Treatment of Carbide Inserts with Respect to Material Properties"

\*Graduate student

## **SCHOOL OF HUMANITIES AND SOCIAL SCIENCES**

- Jacqueline Cavicchio (Sean Dougherty and George Looney) - \$1,161  
"Children's Literature Co-Authored by Toni Morrison"
- John Crane, Eric Johnson, and Holly Blasko-Drabik (Dawn Blasko and Victoria Kazmerski) - \$3,600  
"Examining High and Low Working Memory: An ERP Study of Spatial and Verbal Working Memory"
- Kristin Dressner, Allison Dzuricky, and Mathew Peters (Leigh-Ann Bedal) - \$3,600  
"The Petra Garden and Pool-Complex Excavation (Jordan)"
- Erin Ferguson and Jessica Knapp (Dawn Blasko and Karolina Niedobecka) - \$2,400  
"An Evaluation of the Math Options Program"
- Rebecca Gordon (Dawn Blasko) - \$1,200  
"The Effects of Working Memory Capacity on Change Detection"
- Lisa Jacobs (Victoria Kazmerski) - \$1,200  
"Context Dependent Memory: Memory for Advertisements"
- Nicole Kramer (Dean Baldwin) - \$1,200  
"London: Hero or Anti-Hero in Victorian and Romantic Literature"
- Lorie Lannen (Dean Baldwin) - \$1,200  
"Investigating the Controversy in the US and the UK Surrounding the Author J. K. Rowling and Her *Harry Potter* Series of Books"
- Seraina Naef (Charisse Nixon) - \$1,200  
"Protective Factors for Adolescent Bullying: Extracurricular Activities and Normative Beliefs"
- Denise Nowacinski (Charisse Nixon) - \$1,200  
"Protective Factors for Adolescent Bullying: Extracurricular Activities and Normative Beliefs"
- Dotty Shaffer and Chrissy Anderson (Dawn Blasko and Victoria Kazmerski) - \$2,400  
"Utilizing ERP to Analyze Directionality and Similarity in Metaphor Comprehension"
- Jon Stafford and Michael Pontzer (Victoria Kazmerski) - \$2,100  
"Authority Influence on False Recall"
- Carolyn Tellers (George Looney) - \$1,200  
"In Search of King Arthur"
- Joshua Wilczynski (John Gamble) - \$1,200  
"Comprehensive Statistical Database of Multilateral Treaties"
- Kyle Woodside (Rod Troester and Cathy Mester) - \$850  
"A Critical Examination of Existing Research in Theories of Communication and Civility"

## SCHOOL OF SCIENCE

- Sheldon Bailey (Bruce Wittmershaus) - \$1,200  
"Thin-Film, Multiple-Dye Luminescent Solar Concentrators Based on Lumogen Red"
- Lee Beers (Michael Campbell) - \$1,200  
"In-Situ Hybridization and Real-Time Quantitative PCR Analysis of RD22"
- \*\*Stephanie Benson and Jared McFarland (Lisa Mangel) - \$6,227  
"Avian Population/Habitat Assessment for Presque Isle State Park"
- Charlotte Boni (Michael Campbell) - \$1,200  
"Microarray Analysis of Dormancy in Potato Meristems"
- Jessica Collier (Jay Amicangelo) - \$1,200  
"The Characterization of Silicon Nitride Intermediates Using a Microwave Discharge Source and Matrix Isolation Infrared Spectroscopy"
- Jason Creps (James Warren Jr.) - \$1,200  
"Subcloning of 3 Zebrafish Fragile X Related Protein Genes into Bacterial Expression Vectors for Protein Purification"
- Dominick D'Aurora (Darren Williams) - \$1,200  
"Porting the SWIFT Subroutine Package from FORTRAN 77 to C and Animating Orbits Using IDL"
- Erik Gilford (Jeanette Schnars) - \$1,200  
"The Effects of PCB on the Respiration of the Hatchlings during the Frenzy Period"
- John Lapek Jr. (James Warren Jr.) - \$1,200  
"Sequencing of Folate Metabolism Genes in Zebrafish (*Danio rerio*)"
- Timothy Lyon (Pamela Silver and Anthony Foyle) - \$884  
"Chironomid Response to Sediment in Presque Isle Bay as an Assessment of Bay Health"
- Elizabeth Marton (Martin Kociolek) - \$1,200  
"Synthesis and Ring Opening of 3-Alkoxy and 3-Amino-2-Isoxazoles"
- Sam Marvit (Margaret Voss) - \$1,200  
"The Effect of Urban Noise on Breeding Behavior and Reproductive Successes in Songbirds"
- Floyd Mattie (Michael Campbell) - \$1,200  
"Analysis of Microsatellite Diversity of *Ambystoma maculatum* using Fluorescent Microsatellite Tagging"
- Lee Mitchell (Meng Su) - \$1,200  
"Optimization of the R-Tree Data Structures' Splitting Algorithm"

\*\*Special project

- Emily Morse (Margaret Voss) - \$1,200  
"The Roles of Rank, State, and Seasonal Considerations on Caching Behavior in Black-Capped Chickadees"
- Stacy Mosier (James Warren Jr.) - \$1,200  
"Sequencing and Characterization of Zebrafish (*Danio rerio*) Folate Metabolism Gene Implicated in Neural Tube Defects"
- Thomas Moyer (David Hunnicutt and James Warren Jr.) - \$1,200  
"The Importance of Gliding Motility for *Flavobacterium johnsoniae* Pathogenesis in Zebrafish"
- Ryan Odell (Darren Williams) - \$1,200  
"Consequences of Interplanetary Collisions between Terrestrial Planets and Jovian Satellite Systems"
- Katie Ortmann (Thomas Spudich) - \$1,200  
"Multielemental Analysis of Snapping Turtles Collected from Erie County, Pennsylvania by Cold Vapor Atomic Absorption Spectrophotometry and Hydride Generation Atomic Absorption Spectroscopy"
- Melissa Peters (Margaret Voss) - \$1,200  
"The Impact of Noise Disturbance on Reproductive Fitness in Black-Capped Chickadees"
- Thaddeus Ruefthaler (Meng Su) - \$1,150  
"Examining the M-Tree Data Structure and Modifying for Efficiency"
- Jessica Sarver (Thomas Spudich) - \$1,200  
"Multielemental Analysis of Snapping Turtles Collected from Erie County, Pennsylvania by Hydride Generation and Cold Vapor Atomic Absorption Spectrophotometry"
- Nancy Saxton (Jay Amicangelo) - \$1,200  
"The Characterization of Titanium Nitride Intermediates Using a Microwave Discharge Source and Matrix-Isolation Infrared Spectroscopy"
- Nancy Saxton (Thomas Spudich and Jay Amicangelo) - \$1,200  
"Kinetic Study of Photochromic Pt(II) Compounds of *o*-Aminobenzaldehyde Derivatives"
- Daniel Scannell (Blair Tuttle) - \$1,197  
"Educational Chaos Theory Java Applet"
- Dennis Scheuer (Paul Barney) - \$1,200  
"Development of the Herbarium of the Arboretum at Penn State Behrend"
- Daniel Slomski (G. William Baxter III) - \$1,200  
"Mathematical Determination of Ant Search Dynamics"
- Kayla Smith (Jeanette Schnars) - \$1,200  
"Relationship between *Cheyladra serpentina serpentina* and Species of Hirudinea"

- Nicholas Straub (Martin Kociolek) - \$1,200  
"The Investigation of Novel Ring-Opening Methods of 3-Bromo-2-Isoxazoles with Samarium (II) Iodide"
- Kyle Szklenski (Blair Tuttle) - \$1,200  
"Analyzing the Route to Chaos Displayed in Non-Linear Systems"
- Amanda Wolbert (Mary Chisholm) - \$1,200  
"The Identification of Major Odorants in Murcott (Honey) Tangerine Juice Using Gas Chromatography-Olfactometry (GC-O) and Gas Chromatography-Mass Spectrometry (GC-MS)"
- Kala Wolfe (Margaret Voss) - \$1,200  
"The Effect of Localized Environmental Warming on Breeding Tree Swallows at Long Point Bird Observatory"

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