

2005 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

- Robert Lantzy (James Kurre) - \$1,100
"The Large and Small of the Erie Economy: Are Small Firms the Real Locomotive Driving the Erie Economy?"
- Jason Pflueger (James Kurre) - \$1,100
"How Much Income Inequality is There in the Erie Area and Why Does It Exist?"

SCHOOL OF ENGINEERING AND ENGINEERING TECHNOLOGY

- Jon Boysel (John Roth) - \$1,100
"Analysis of Electrical Aided Bending Processes"
- Lisa Buziewicz (Oladipo Onipede) - \$1,100
"Modeling and Analysis of Electrostatically Driven Combdrive Actuators"
- Mark Cipriani (Oladipo Onipede) - \$1,100
"Design and Testing of SMA Embedded Composite Wings"
- William Cutter (Ronald Krahe) - \$1,100
"Dynamic Motion and Position Game Sensor"
- Dennis Darak (Ronald Krahe and Shouling He) - \$1,100
"Inverted Pendulum Using Fuzzy Logic"
- Amanda Evans (John Roth) - \$1,100
"Extending the Tool Life of Solid Tungsten Carbide Endmills using Cryogenic Treatment"
- Jon Glendinning and Sean Salem (David Loker and Ronald Krahe) - \$2,200
"Real-time Characteristics of 'PC in the Loop' Control"
- Ryan McCarthy (Thomas Briselden) - \$1,100
"Characterization of Siliconized Silicon Carbide"
- Krista Mikula (John Roth) - \$1,100
"Effects of DC Current on the Mechanical Properties of Various Metals"
- Terence Musho (William Lasher) - \$1,100
"Comparison of Fluent and ANSYS/CFX Software for Spinnaker Simulation"
- Adam Neff (John Roth) - \$1,100
"Extending the Life of Solid Tungsten Carbide Tooling using Cryogenics"

- Timothy Perkins (John Roth) - \$1,100
"Study of Applied Current to Machining Processes"
- Zachary Sadowski (John Roth) - \$1,100
"Life Expectancy of Tungsten Carbide Tooling by Means of Cryogenic Treatment"
- Shawn Stahlman (James Sonnenmeier) - \$1,100
"Calculation of the Aerodynamic Performance of Twisted Wings - Part II"
- Nate Steele, Jason Donnell, Andy King, Francis Kargbo, D. Isaac Aunkst, and Michael Lukehart (Ronald Krahe) - \$6,600
"Remote Distributed Matchbox® Race Monitoring and Scoring System"
- Ryan Walker (Chris Coulston) - \$1,060
"Design and Fabrication of a Multimodal Sound System"
- Dustin Yautz (Yi Wu) - \$1,100
"GUI for a Human Circulatory Model and Improvement for Heart Simulation Function"

SCHOOL OF ENGINEERING AND ENGINEERING TECHNOLOGY AND SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

- Holly Blasko Drabik, Steven Brown, Chris Camilleri, Stuart Daman, Patrick Harris, Jonathan Hika, Nechal Kachalia, Gary Krugger, Ivan Lopez, Kristin Macha, Chris Marisic, and Michael Vogt (Dawn Blasko, Kathy Holliday-Darr, Derek Mace, Jennifer Trich Kremer, and Ronald Krahe) - \$12,400
"Interdisciplinary Project to Develop Activities to Enhance Spatial Visualization"

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

- John Crane and Eileen Haase (Victoria Kazmerski) - \$2,200
"Science Activity Learning and Spatial Abilities in Fourth Graders"
- Jenna Dominick (Cathy Mester and Rod Troester) - \$1,100
"Analysis of Conflict and Conflict Management in Adolescents"
- Sandra Grgic (Victoria Kazmerski and Dawn Blasko) - \$1,100
"Read my Lips or Read my Face: ERP Evidence of an Emotional and Phonetic McGurk Effect"
- Erik Regis (Michael Christofferson) - \$1,100
"Intensive French Language Study and Research on Nineteenth-Century French Socialism and the Problem of Universal Suffrage"
- Joshua Wilczynski, Chris Strayer, Rob Lantzy, and Leslie Sargent (John Gamble) - \$3,400
"Comprehensive Database of Multilateral Treaties (CSDMT)"

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES AND SCHOOL OF SCIENCE

- Carly Kosinski, Stuart Daman, Teri Ritenour, Holly Greiner, Alla Sokolyuk, Crystal Willis, and Amy Rogan (Dawn Blasko, Antonella Cupillari, and Jonathan Hall) - \$7,100
“Civic and Community Engagement: Math Options in the Schools”

SCHOOL OF SCIENCE

- Harry Balwick Jr. (Margaret Voss) - \$1,100
“Can Nest Construction and Incubation Feeding Alter the Behavior of Female Songbirds during Incubation”
- Leann Bartomioli, Andrew Collins-Hed, Jennifer Nimako, and Adam Rhodes (Yi-Hong Wang and Michael Campbell) - \$4,400
“Amino Acid Profiling of Tomato Plants Generated by Activation Tagging and Insertional Mutagenesis”
- Jason Campbell (Lola Deets) - \$1,100
“Accessing Native Plants of Pennsylvania by Ecoregions through Web-based and CD-ROM Tools”
- Christen Case and Sarah Pattison (Lisa Mangel) - \$2,200
“Avian Population/Habitat Assessment for the Lake Pleasant Wetlands”
- Christopher Dine (Jay Amicangelo) - \$1,100
“The Characterization of Silicon Nitride Intermediates Using a Microwave Discharge Source and Matrix-Isolation Infrared Spectroscopy”
- Dave Gilson (Blair Tuttle) - \$1,100
“Amorphous Silicon Models Using Monte-Carlo Simulations”
- Lawrence Glick (Paul Olson and Joseph Previte) - \$1,100
“Conway’s Game of Life and Surreal Numbers”
- Rory Hanczar (Eric Obert and Pamela Silver) - \$1,100
“Determining the Home Range of *Fundulus diaphanus* and its Possible Use as a Bioindicator for Contamination Hotspots in Presque Isle Bay”
- Sara Hester (Margaret Voss) - \$1,100
“Effects of Temperature on Clutch Size in House Wrens”
- Meredith Hyldhal (Darren Williams) - \$1,100
“Frequency of Giant Impacts on Extrasolar Earth-Like Planets”
- Sam Marvit (Margaret Voss) - \$1,100
“Extra-Pair Paternity in Black-Capped Chickadees (*Poecile atricapillus*) as a Function of Noise Disturbance”
- Joshua Meyer (Michael Campbell) - \$1,100
“Creation of an NDP1 Antisense Mutant in *A. Thaliana*”

- Ryan Odell (Darren Williams) - \$1,100
"Consequences of Interplanetary Collisions between Terrestrial Planets and Jovian Satellite Systems"
- Stacey Olechowicz (James Warren Jr.) - \$1,100
"Expression Analysis of Three Fragile X-Related Gene Homologs in Zebrafish"
- Rachel O'Patchen (Lisa Mangel) - \$1,100
"Restoration and Analysis of Aves, Mammals, and Reptiles"
- Nicholas Ross (Blair Tuttle) - \$1,100
"Computing through the Ages: Hands-on Curriculum Development"
- Jason Shaffer (Martin Kociolek) - \$1,100
"Development of New Ring Opening/Cyclocondensation Reactions of 3-Bromoisoxazoles"
- Jennifer Sidun (Jennifer Holt) - \$1,100
"Spectroscopic Investigations of Novel Host-Guest Materials Using Merocyanine Dyes in Cyclodextrin Cavities"
- Christopher Suprock (Lawrence Downey) - \$1,100
"Image Compression Using Quadrant Decomposition with Variance Procedure"
- Kyle Szklenski (Paul Olson) - \$1,100
"Chess and Combinatorial Game Theory"
- Peter P. Tagala (James Warren Jr.) - \$1,100
"Sequence Determination and mRNA *In Situ* Hybridization Analysis of the Glycine Cleavage System for Genes in Zebrafish (*Danio rerio*)"
- Justin Walker (G. William Baxter) - \$1,100
"Mathematical Determination of the Effect of Surface Texture on Ant Search Dynamics"

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