

2006 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

- Alexander Kazmierczak (James Kurre) - \$1,200
"What Type of Products' Prices Vary More Across Space? An Initial Examination"
- Jason Pflueger (James Kurre) - \$1,200
"What Causes the Link between Income Inequality and Manufacturing Employment?"
- Elizabeth Stablein (Michael Brown and Michael Maloni) - \$1,200
"Corporate Social Responsibility (CSR) in the Supply Chain: Assessing Current Practices in the Food Industry"

SCHOOL OF ENGINEERING AND ENGINEERING TECHNOLOGY

- Matthew Baker (Wen-Li Wang) - \$1,115
"Studying Audio Protocols and Developing a Software System for Recording, Playback, and Signal Monitoring"
- Justin Beale (Thomas Hemminger) - \$1,200
"Small Object Radar Filtering"
- Russell Carter (Oladipo Onipede) - \$1,200
"Design and Testing of SMA Embedded Composite Wings"
- John Donovan (John Roth) - \$1,200
"Testing and Analyzing the Effects of DC Current on the Material Properties of Various Metals"
- Edward Falk (John Roth) - \$1,200
"Cryogenic Treatment of Coated Tungsten Carbide Tools and its Effect on Tool Life"
- Joshua Green (James Sonnenmeier) - \$1,200
"Measurement and Calculation of the Aerodynamic Performance of Twisted Wings - Part II"
- Kent McKee (William Lasher) - \$1,200
"Calculating Heeling Moments on the Brig Niagara"
- Thomas Spinner (John Roth) - \$1,200
"Optimization and Tool Library Expansion for On-line Directionally Independent Failure Prediction of Mill Cutting Tools"

- Kevin Sunealitis (Oladipo Onipede) - \$1,200
“Finite Element Analysis of Electrostatically Driven Micro-Beams”
- Matthew Warner (John Roth) - \$1,200
“Effects of DC Current on the Mechanical Properties of Various Metals”
- Alexander Winter (Robert Weissbach) - \$1,200
“Data Analysis and Software Development for a Wind Energy Protocol”

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

- Jenna Beck, Jimmie Hodge, Eric Johnson, Ivan Lopez, Megan Miller, Matt Morrison, Lauren Wagner, and Matt Widdowson (Dawn Blasko, Kathy Holliday-Darr, Derek Mace, Jennifer Trich Kremer, and Ronald Krahe) - \$9,600
“Interdisciplinary Project to Develop Activities to Enhance Spatial Visualization”

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

- Kevin Belknap, Mike Long, Sabina Medilovic, Leslie Sargent, Cassidy Schenley, and Chris Strayer (John Gamble) - \$4,406
“Comprehensive Statistical Database of Multilateral Treaties (CSDMT)”
- Angela Speck and Andrew Walker (Dawn Blasko and Victoria Kazmerski) - \$2,400
“Analyzing How Sex Differences and Relational Aggression Influence Sarcasm Processing”
- Stephen Wingerter (Cathy Mester and Rod Troester) - \$1,170
“Behavioral Standards at *Fortune 500* ‘Best Companies’: The Civility Component”

SCHOOL OF SCIENCE

- Robert Blanner III (Martin Kociolek) - \$1,200
“Investigating the Synthesis and Reactivity of Monosubstituted Isoxazoles”
- Casey Bradshaw (Pamela Silver and Jeanette Schnars) - \$1,200
“Use of Polarized Light as an Orientation Cue towards Water in Painted Turtles”
- Anita Brock (David Hunnicutt) - \$1,200
“Nasal Carriage of Community-Acquired Methicillin-Resistant *Staphylococcus aureus* in a Healthy Population of College Students”
- Stephanie Burbules (James Warren Jr.) - \$1,200
“Molecular Genetic Analysis of Folate Metabolism in the Zebrafish (*Danio rerio*): Analysis of the *in vivo* Role of BHMT in Early Development”
- W. Clay Campbell (Michael Campbell) - \$1,200
“The Development of Antisense NDP1, OHP2, and Overlapping Region Mutants of *Arabidopsis thaliana* for the Determination of Gene Function and Regulation”
- Andrew Collins-Hed (Michael Campbell and Yi-Hong Wang) - \$1,200
“Modification of Branched-Chain Amino Acids in Tomato Fruit by Changing Expression of the Enzyme Acetolactate Synthase”

- Todd Eckroat (David Hunnicutt) - \$1,200
"Pathogenesis of *Flavobacterium* in Zebrafish"
- Ashley Ethridge (Pamela Silver and Jeanette Schnars) - \$1,200
"Nesting Ecology of *Chelydra serpentina* in Lake Erie Watershed"
- Megan Hammers (Heather Jones) - \$1,200
"Effects of CPT-11, a Chemotherapeutic Agent Used in Colorectal Cancer, on Colonic Secretion"
- Jennifer Hughes (Pamela Silver and Jeanette Schnars) - \$1,200
"Herpetological Study of the Species of Frogs and Toads at Presque Isle State Park"
- Meredith Hyl Dahl (Bruce Wittmershaus) - \$1,199
"The Photostability of CdSe/ZnS Core-Shell Quantum Dots in Luminescent Solar Concentrators"
- Matthew Jackel (Martin Kocielek) - \$1,200
"Synthesis of Substituted 1-Benzoxepin Derivatives from 3-Carboxyisoxazoles"
- Benjamin Kuhn (Heather Jones) - \$1,200
"Defining a Role for Intracellular Chaperones in Trafficking of the KCNN Potassium Channel Proteins"
- Ashley Loker (Heather Jones) - \$1,200
"Effects Growth Factors on Colonic and Airway Chloride Secretion"
- Jeffrey Machusko (Darren Williams) - \$1,200
"Dynamical Response of the Moon to a Major Impact on the Early Earth"
- Alissa Mague (Heather Jones) - \$1,200
"Role of Growth Factors in the Expression and Function of the Human Intermediate Conductance Calcium (Ca^{2+}) Activated Potassium (K^+) Channel hK1"
- Erin Mathes (David Hunnicutt) - \$1,200
"Localization of *Flavobacterium johnsoniae* and *Flavobacterium columnare* in *Danio rerio*"
- Jonathan McDowell (Pamela Silver and Jeanette Schnars) - \$1,200
"Proposal of Herpetological Collection at Presque Isle State Park"
- Michelle McGregor (Margaret Voss) - \$1,200
"Microbial Effects on Nesting Mortality"
- Keri McNamara (Martin Kocielek) - \$1,200
"Synthetic Studies toward the Synthesis of 1-Benzoxepin Natural Products"
- Joshua Meyer (Michael Campbell) - \$1,200
"Investigation of the Interaction of the Genes NDP1 and OHP in *Arabidopsis thaliana*"
- Stacey Olechowicz and Julie Miller (James Warren Jr.) - \$2,400
"Investigating the *in vivo* Functions of the Fragile X Gene Family in Zebrafish through Gene Knockdowns"

- Stephen Oyler (Lola Deets) - \$1,200
“Environmental Sustainability through Agroforestry, Organic and Fair Trade Certification”
- Frank Pagel (Michael Campbell) - \$1,200
“Investigating the Overlapping Region of the NDP1 and OHP Genes in *Arabidopsis thaliana*”
- Joe Pleso (Paul Olson) - \$1,200
“The Game of Go and Surreal Analysis”
- Daniel Rogers (Lisa Mangel) - \$1,200
“Support Network and Facilities Required for Skeletal Preparation”
- Emma Rogers (Lisa Mangel) - \$1,200
“Care, Maintenance, and Growth of a Dermestid Beetle Colony”
- Kristen Schnepf (Pamela Silver and Jeanette Schnars) - \$1,200
“Proposal for a Herpetological Inventory of Presque Isle State Park”
- Erika Segear (Michael Campbell) - \$1,200
“Microarray Analysis of the Potato Genome”
- Casandra Sheldon (Jennifer Holt) - \$1,200
“Investigations of the Orientations of Merocyanine Dyes in Zolites Host Materials”
- Mark Stauffer and Shannon Rupprecht (Pamela Silver) - \$2,400
“The Effect of Road Salt (NaCl) on Life History Characteristics of *Chironomus riparus* (Diptera, Chironomidae)”
- Christopher Suprock (Lawrence Downey) - \$1,200
“Image Compression using Quadrant Decomposition, Dimensional Correlation, and Functional Compression”
- Kaile Taylor and Daryl Nowacki (Yi-Hong Wang) - \$2,400
“Generation of Activation-Tagged Tomato Plants for Functional Genomics”
- Colleen White (Heather Jones) - \$1,200
“The Role of Protein 14-3-3 in Trafficking and Function of the KCNN Potassium Channels”
- Malorie Winters (Joseph Previte) - \$1,200
“Feedback of a Scavenger on Competing Species and Lotka-Volterra Models”
- Kala Wolfe (Margaret Voss) - \$1,200
“The Effects of Clutch Size on Incubation Period and the Heating and Cooling Rates of Eggs in the House Wren”

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