

CMU 2010 FY08 Annual Report

Project Title: Increasing Infrastructural Support for Student Research at Central Michigan University
 Project Leader: Roger Coles, Interim Dean, College of Graduate Studies
 Project Number: 200510 Date of Report: July 16, 2008

Refer to your *Outcome Evaluation Worksheet* to complete the information below. Insert additional rows if needed. Rows will automatically expand as you type. You are welcome to attach additional documents to supplement – but **not** substitute for - the information provided below.

| | Outcome/Milestone | Status (Complete, in Progress, or Not started) | Date Measured | What are the next steps to achieving this outcome? |
|----------|--|---|---------------|--|
| 1 | Awarded more Graduate Student Research and Creative Endeavors grants to Grad Students in 07-08. 07-08 Dollars Funded = \$31,748.26 06-07 Dollars Funded = \$23,974.49 05-06 Dollars Funded = \$25,573.74 | C | 7/16/2008 | |
| 2 | Funded more Dissertation Research Support Awards to Graduate Students in 07-08. 07-08 Dollars Funded = \$21,867.41 06-07 Dollars Funded = \$9,579.26 05-06 Dollars Funded = \$12,661.81 | C | 7/16/2008 | |
| 3 | Provided funding to 87 Graduate Students totaling \$29,222.30 for Graduate Publications & Presentation Grant Awards for 07-08. 06-07 Dollars Funded = | C | 7/16/2008 | |

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|------------------------|--|--|--|
| \$31,017.26 | | | |
| 05-06 Dollars Funded = | | | |
| \$28,243.38 | | | |

**GRADUATE RESEARCH
CMU Vision 2010**

As indicated in the undergraduate report, it was agreed to divide the \$68,000 per year funding for this project into the following: \$50,000 for undergraduate research and \$18,000 for graduate student research

Vision 2010 funding enabled the college of Graduate Studies to increase the maximum award for a Graduate Student Research Grant award from a maximum of \$600 to a maximum award of \$1000. Maximum funding for Dissertation Support Grants was increased from \$1500 to \$2000; Maximum funding for Graduate Presentation and Publication grants was increased from \$250 to \$350.

What are your plans for sustaining support for your project beyond the CMU 2010 funding period?

We will attempt to write a grant to obtain needed funds so as we can continue with this dollar support for your students.

How can the ISPC assist you with those plans?

Thanks and we are most pleased with the response of this service to date.

**Summer Research and Creative Endeavors Scholars Program
Undergraduate Awards
Spring, 2008**

| Name | Dept. | Advisor | Title | Award |
|---------------------------|--------------|------------------|---|--------------|
| Assis, Luiza | BIO | Elizabeth Alm | Pathogenic <u>Campylobacter spp</u> and <u>Escherichia coli</u> in Poinds on the Campus of Central Michigan University | \$3,000 |
| Clem, Alexander | BIO | Tracy Galarowicz | Factors that Influence Nest Site Selection of Smallmouth Bass in the Beaver Archipelago, northern Lake Michigan | \$3,000 |
| Jensen, Kevin | GEL | Mona Sirbescu | The Origin of Gold Deposits from Timmins, Ontario, Canada: Insights from Graphite-Bearing Fluid Inclusions | \$3,000 |
| Johnston, Samantha | CHM | Stephen Juris | Biocompatibility of Polysaccharides Gels for Use as Skin Scaffolds | \$3,000 |
| Lalko, Michael | MTH | Leela Rakesh | Rheological Probe of Polycarbonate with COOH and OH Functionalized Short Carbon Nanotubes | \$3,000 |
| Pascouau, Renee | SASW | Sergio Chavez | Highland Height: A Multi-Temporal Study of Aymara Amerindian Stature and Body Proportion | \$3,000 |
| Serwatowski, Taryn | GEL | Sven Morgan | Crystal Size Distribution and Growth Rate in the Trachyte Mesa Laccolith | \$3,000 |
| Stamps, Glenn | BIO | Brad Swanson | Survival of Hybrid <u>Ambystoma</u> Larvae Compared to the Survival of Sympatric Species Larvae | \$3,000 |
| Wilson, Elizabeth | GEL | Mona Sirbescu | Gemstone-Bearing or Gemstone-Barren Pegmatite Pockets? Insights from Borate Contents of Fluid Inclusions Through Microthermometry, Chromatography, and Raman Spectroscopy | \$3,000 |
| Zlamal, Jaime | BIO | Peter Kourtev | Impact of the Invasive Plant Species Autumn Olive on Soil Microbial Communities | \$3,000 |

Total Awarded: \$30,000

| Student Name | Dept. | Project Title | Advisor | Conference or Journal | Location | P & P Money Awarded |
|---------------------|--------------|---|----------------------|--|-----------------|--------------------------------|
| Banks, Cynthia | HEV | Women and Aging: A Feminist Perspective | Saathoff-Wells, Tara | Michigan Womens Studies Conference | EMU | \$230.00 |
| Bauer, Leah | BIO | Evaluation of Intimin and Bundle-Forming Pilus in Environmental Escherichia coli | Elizabeth Alm | General Meeting of the American Society for Microbiology | Boston, MA | \$200.00 |
| Benskey, Matthew | PSY | Incongruent Probability and Congruity with Touch Color Response | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |
| Bombard, Matt | PSY | Adult, bone-marrow, derived stem cells that are genetically engineered to over-express brain derived neurotrophic factor and nerve growth factor reduce behavioral deficits in th yeast artificial chromosome transgenic mouse model of Huntnington's disease | Gary Dunbar | Society for Neuroscience Meeting | San Diego, CA | \$400.00 |
| Carter, Katelyn | CHM | Evaluation of Study Habits for Freshman Chemistry Students Using the James' Internal-External Locus of Control Scale | Brad Fahlman | National Meeting of American Chemical Society | New Orleans, LA | \$138.00 |
| Casey, Krista | PSY | Differential Integration of Strop Stimuli: Together they Interfere | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |
| Chandonais, Daniel | GEL | Microstructures and Deformation Mechanisms on the Western Margin of the Eureka Valley-Joshua Flat-Beer Creek Pluton, California | Sven Morgan | 2007 Annual Meeting of Geological Society of America | Denver, CO | \$350.00 |

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|------------------|-----|--|-------------------|--|-----------------------|----------|
| Charping, Justin | PSY | Touch Screen Reverse Stroop Effect: Color Inhibits Word | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |
| Colwell, Caitlin | HS | Effects of Phase II Cardiac Rehabilitation on Patients with Abnormal Baseline Risk Factors | Roop Jayaraman | National Conference on Undergraduate Research | Maryland | \$400.00 |
| Craig, Daedre | BIO | The Andis Hemipenis as a Taxonomic Tool | Kirsten Nicholson | Joint Mtg of Ichthyologists and Herpetologists | St. Louis, MO | \$400.00 |
| Cheevers, Daniel | PSY | Incongruent Probability and Vocal Interference | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |
| DeLine, Amy | PHY | Students Giving Student Advice Before the First Day | Joe Finck | College Teaching and Learning Conf. | Orlando, FL | \$400.00 |
| Denomme, Richard | CHM | Synthesis of Novel Core-Shell Nanoclusters for Quantum Dot Sensitized Solar Cell Application | Brad Fahlman | National Chemistry Meeting | New Orleans, LA | \$300.00 |
| Farmer, Darrel | CDA | An Analysis of Arguments to Oppose the War: Retired Officers Take on Rumsfeld at the Democratic Policy Committee | Edward Hinck | National Communication Association Conference 2007 | Chicago, IL | \$400.00 |
| Farmer, Darrel | CDA | An Analysis of General John Batiste's testimony about the Iraq War: Expanding the Scope of the Controversy | Edward Hinck | Central States Communication Association Undergraduate Honors Conference | Madison, WI | \$200.00 |
| Farmer, Darrel | CDA | An Analysis of Arguments to Oppose the Iraq War's Retired Generals Analyze and Refute President Bush's Strategy | Edward Hinck | DePauw Undergraduate Honors Conference | Greencastle, Indiana | \$200.00 |
| Gordon, Svea | HS | Impact of Diet and Exercise on Body Mass and Lipids in Overweight and Obese Individuals | Roop Jayaraman | National American College of Sports Medicine Conf. | Indianapolis, Indiana | \$400.00 |

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|-------------------|-----|---|------------------------|--|-----------------------|----------|
| Gorski, Eva | CHM | NMR Characterization of Novel Priostar Dendrimers | Minghui Chai | ACS National Mtg | Boston, MA | \$400.00 |
| Green, Erin | PSY | An Investigation of the Correlations Between Aggression and Social Problem-Solving in Violent Offenders | George Ronan | Applied Behavioral Cognitive Therapy Meeting | Philadelphia, PA | |
| Griffin, Lauren | ET | The Utilization of Product Lifecycle Management applications within Individual and Team Design Projects | David Kelley | 2007 National Association of Industrial Technology | Panama City Beach, FL | \$400.00 |
| Hall, Megan | HEV | Integrating Technology as an Interdisciplinary Approach to History and Culture | Jeanneane Wood-Nartker | The Fourth International Conference on Technology, Knowledge and Society | Boston, MA | \$253.17 |
| Harke, Maureen | PSY | Spanking Worked for Me: Factors Predicting College Students' Choice of Child Discipline Strategies | Larissa Niec | Parent-Child Interaction Therapy Conference | Oklahoma City, OK | \$400.00 |
| Harke, Maureen | PSY | Differential Gender Effects of Practice on MRT: Process vs Memory | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |
| Hoving, Brandon | GEO | Accuracy of a WRF Simulation of the 12 June 2001 Mesoscale Convective System | Martin Baxter | National Weather Association Annual Meeting | Reno, Nevada | \$400.00 |
| Jackson, Jennifer | GEL | Petrology and Geochemistry of the Eureka Valley Monzonite, White-Inyo Mountains, California | David Matty | Geological Society of America Denver Annual Meeting | Denver, CO | \$400.00 |
| Jacome, Maria | PSY | Objective and Subjective Workplace Social Support and Gender | Terry Beehr | Work, Stress and Health 2008 | Washington, DC | \$400.00 |

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|-------------------|--------|---|---------------------|--|---------------------|----------|
| Jagniecki, Elliot | GEL | Petrographic Differences Between Acid and Neutral Halites | Kathy Benison | 2007 Geological Society of America Annual Mtg & Expo | Denver, CO | \$400.00 |
| Janssen, Kadi | SASW | Forever Changed by the Storm: Social Work Students and Their Hurricane Recovery | Susan Grettenberger | Baccalaureate Social Work Education | Destin, FL | \$200.00 |
| Johnson, Mark | McNair | Racial Composition of High Schoolin Relation to Academic Achievement in College | Lynn Curry | McNair 2008 National Undergrad Research Conf. | Univ. of Maryland | \$150.00 |
| Johnston, William | GEO | Effective Earth Science Demonstrations Using Only One or Two Items | Mark Francek | National Association of Geoscience Teachers | Evansville, Indiana | \$400.00 |
| June, Meghan | PSY | Incongruent Probability and Interference with First Letter Typing Response | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$350.00 |
| Knapp, Jonathan | GEO | Revisiting the Red Bed Problem in the Michigan Basin | Kathy Benison | Geological Society of America | Denver, CO | \$400.00 |
| Lalko, Michael | MTH | Rheological Study of Steady Shear and Linear Viscoelastic Characteristics of Polyethylene and Polycarbonate Nanocomposites | Leela Rakesh | American Society of Mechanical Engineers 2007 International Exposition | Seattle, WA | \$400.00 |
| Leatherman, Mark | GEL | Chemical & Textural Variations of Apatite, Animikie Red Ace Pegmatite, Florence County, Wisconsin: Implications for Crystallization Processes | Sirbescu, Mona | Geological Society of America North-Central Section Annual Meeting | Evansville, Indiana | \$400.00 |
| Mausolf, Adam | McNair | Generational and Social Influences Affecting Fathers | Lynn Curry | McNair 2008 National Undergrad Research Conf. | Univ. of Maryland | \$150.00 |

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|---------------------------|--------|---|---------------------|---|-------------------|----------|
| Michaels, Christina | SASW | Forever Changed by the Storm: Social Work Students and Their Hurricane Recovery | Susan Grettenberger | Baccalaureate Social Work Education | Destin, FL | \$200.00 |
| Miller, Lauren | ENG | The Non-English Concentration Consultant | MaryAnn Crawford | East Central Writing Center Association Conference | OSU | \$100.00 |
| Miller, Rachel | FLN | Fantastical Reactionaries: The eo-Baroque Response to Encroaching Modern-Day Globalization in Latin American Art and Literature Focusing on the Chronicles of Chilean Author Pedro Lemebe | Kulawik Krzysztof | International Conference on the Arts in Society | Birmingham, UK | \$400.00 |
| Miller, Wesley | PSY | Incongruent Probability and Vocal Congruity | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |
| Nezeritis, Leontios | CHM | Mechanistic Considerations in the Low-Temperature Growth of Carbon Nanofibers | Brad Fahlman | American Chemical Society Nnational Meeting and Exposition | New Orleans, LA | \$265.00 |
| Nix, Natalie | McNair | History at the Turn of the Century: Childhood and Memory in Recent Hispanic Cinema | Lynn Curry | McNair 2008 National Undergrad Research Conf. | Univ. of Maryland | \$150.00 |
| Novak, Sarah Baker, Emily | MTH | Evaluating El Nino's Effect in the Mid-Michigan and Puerto Rico Areas Using Multiple Linear Regression | John Daniels | Joint Mtgs of the American Mathematical Society and the Mathematical Association of America | San Diego, CA | \$400.00 |
| Partlo, Amanda | PSY | Differential Gender Effects of Repeating the MRT: Memory vs. Process | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |

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|--------------------|-----|--|---------------------|--|-------------------|----------|
| Pfenninger, Todd | PSY | Incongruent Probability and Interference with Touch Color Response | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |
| Prich, Rebecca | PSY | The Effects of 6-Hydroxydopamine Nigrostriatal Dopaminergic Denervation on State Anxiety | Justin Oh-Lee | Association for Psychological Science Annual Convention | Chicago, IL | \$200.00 |
| Radzwion, Eileen | MTH | Minimum Semidefinite Rank at a Graph with Cut Sets of Size 2 and Graphs with $\text{msr}(G)=n-2$ | Sivaram Narayan | American Math Society Special Session on Undergrad Research/American Mathematical Society and Mathematical Assoc. of America | San Diego, CA | \$400.00 |
| Reynolds, Brent | GEL | Petrology and Geochemistry of the Joshua Flat Quartz Monzonite, White-Inyo Mountains, California | David Matty | Geological Society of America Annual Meeting | Denver, CO | \$400.00 |
| Rice, Philip | MUS | Three Celtic Blessings, <i>Movement III</i> | Nina Nash-Robertson | Chanticleer Youth Choral Festival 2007 | San Francisco, CA | \$400.00 |
| Riehl, Andrea | ENG | East Central Writing Center Association Conference | MaryAnn Crawford | Meeting the Needs of Kinesthetic Learners in the writing center | OSU | \$100.00 |
| Rimer, Sara | MTH | The Minimum Semidefinite Rank of a Graph | Sivaram Narayan | Nebraska Conference for Undergraduate Women in Mathematics | Lincoln, Nebraska | \$400.00 |
| Robertson, Kenneth | GEO | African American Migration in the United States | David Patton | Conference of Assoc. of American Geographers | Boston, MA | \$400.00 |

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| Schafer, Allie | McNair | Body Density Using 3D Laser Scanning Compared to BMI | Lynn Curry | McNair 2008 National Undergrad Research Conf. | Univ. of Maryland | \$150.00 |
| Schilling, Katherine | HS | HIV Teating Among Women in the United States | Jeff Inungu | National HIV Prevention Conference | Atlanta, Georgia | \$400.00 |
| Schumacher, Katelyn | BIO | Using Microsatellites to Detect Inter-Peninsula Misreports of Harvest Locations for Bobcats in Michigan | Brad Swanson | Nelson Mandela Metropolitan University | Port Elizabeth, S.Africa | \$400.00 |
| Serwatowski, Taryn | GEL | Geophysical Investigation of Subsurface Magma Feeders in the Henry Mountains of South-Central Utah | Sven Morgan | Geological Society of America National Conference | Denver, CO | \$400.00 |
| Smith, Andrea | HEV | Sex Education, Obscene? | Saathoff-Wells, Tara | Michigan Womens Studies Conference | EMU | \$238.37 |
| Sun, Yanjia | ET | A Joint Education Feeder Program | Daniel Chen | American Society for Engineering Education Annual Conference | Pittsburgh, PA | \$300.00 |
| Thelen, Jennifer | RPL | Understanding Visitor Needs: Attraction and Retention of Visitors in Interpretive Programs at Ludington State Park | Roger Coles | National Assoc for Interpretation Region IV Conference | Cuyahoga Valley National Park, Ohio | \$400.00 |
| Thornton, Rebecca | McNair | College Students' Perceptions of Intimate Partner Violence and Rape Myth Acceptance | Lynn Curry | McNair 2008 National Undergrad Research Conf. | Univ. of Maryland | \$150.00 |
| Turner-Moore, Amber | McNair | Health Literacy Skills of College Students: A Quantitative Study of Skills Evaluation | Lynn Curry | McNair 2008 National Undergrad Research Conf. | Univ. of Maryland | \$150.00 |
| Voss, Luke | CHM | Modified Reactive Distillation for Producing Biodiesel | Dale LeCaptain | American Chemical Society | New Orleans, LA | \$300.00 |

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|-------------------|--------|---|--------------------|--|-------------------|--------------------|
| Warren, Stephanie | PSY | Incongruent Probability and Interference with Touch Word Response | John Mohanan | Southern Society for Philosophy and Psychology | New Orleans, LA | \$400.00 |
| Wendling, Jessica | HS | Physiological Effects of Caffeine During Submaximal Exercise | Paul Visich | Midwest American College of Sports Medicine Annual Mtg | Columbus, OH | \$100.00 |
| Westman, Erin | McNair | Borrowing or Adaptation of Weapons and Tactics Between the Muslim and Crusader | Lynn Curry | McNair 2008 National Undergrad Research Conf. | Univ. of Maryland | \$150.00 |
| Wilton, Clay | BIO | Ecological Importance of a Freshwater Crab (Potomonautes emini) as a Macroinvertebrate Shredder in an East African Stream | Catherine O'Reilly | North American Benthological Society | Columbia, SC | \$400.00 |
| Wolfe, Jennifer | MTH | Finding the Minimum Semi-definite Rank of a Graph | Sivaram Narayan | Joint Mathematics Meetings | Sn Diego, CA | \$400.00 |
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| | | | | | TOTALS: | \$20,874.54 |