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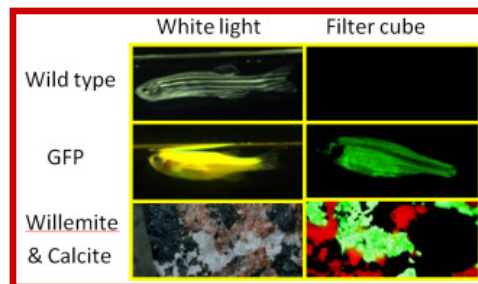
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## In-Situ GFP Assays: Making Research Accessible

Research is expensive. Professors who want to involve their freshmen and sophomore classes in quality research projects often find themselves frustrated by lack of funds. Dr. Stokes Baker found himself in this common predicament when teaching his General Biology Laboratory I course, where he intended to teach students to use fluorescent image analysis equipment to conduct *in situ* (within living cells) experiments. Unfortunately, the price of such equipment ranges from \$13,000 to \$54,000, making the technology unavailable to most teaching laboratories and even many research laboratories. However, Dr. Baker devised a cost-effective solution. With help from a grant from the National Science Foundation, he developed an attachment that enables consumer digital cameras and computer analysis procedures to capture the same information as fluorescent image analysis equipment. The apparatus costs \$300 to build, and allows a freshman or a sophomore to use an ordinary digital camera to conduct the kind of research projects that are currently being done by professional researchers worldwide.

Specifically, the camera and attachment measure Green Fluorescent Protein (GFP). As the name suggests, the GFP fluoresces green when illuminated with blue light, making it easily detectable. What exactly is GFP and why is it important for students to measure? GFP has existed for millions of years in jellyfish, but only in the late 1980s did scientists discover the protein's importance as a "reporter molecule." That is, when attached to another protein molecule that is too small to be seen under an electron microscope, the GFP is like a small green lightbulb, alerting the

researcher to the presence of this other, more elusive protein—hemoglobin, for instance. This allows researchers to understand a lot about proteins. GFP can be a reporter tag on many different proteins, and indeed, in laboratories worldwide, flatworms, algae, *E. coli* and pigs have all been made to fluoresce with GFP, though students in Bio1210 are looking at GFP in whole plants.



Dr. Baker's camera and attachment use a dichroic light filter, or interference filter, which reflects blue light, causing it to illuminate the specimen. The blue light causes the GFP to fluoresce green. Thus, the attachment makes the camera work the same way as fluorescent image analysis equipment.

Though the students at the University of Detroit Mercy are the first to benefit by this innovation, Dr. Baker intends to publish his results in peer reviewed journals. Soon students worldwide will be able to conduct *in situ* GFP assays in this cost-effective manner.

For questions, comments or letters to the editor, please contact  
Cate Caldwell, Director, Office of Sponsored Programs and Research Activities  
5th floor, Fisher Administration Building  
phone: (313) 993-1544  
fax: (313) 993-1534  
e-mail: [caldwecr@udmercy.edu](mailto:caldwecr@udmercy.edu)

## Psychology Clinic Wins Prestigious HRSA Grant

By August 2011, students in UDM's Doctoral Program in Clinical Psychology will have access to a new video system, VBRIT, as part of their practicum training at the Psychology Clinic. VBRIT, which stands for Video-Based Remote and In-Vivo Training, is a video live streaming and recording system which will increase the quality of practicum training for psychology students. The VBRIT system was made possible through an \$81,165 grant from the Health Resources and Services Administration (HRSA) through the American Re-investment and Recovery Act (ARRA), better known simply as the 'Recovery Act.' Dr. Cheryl Munday, Associate Professor and Director of the Psychology Clinic, proposed the system to enhance students' training and their preparation for practice in medically underserved areas. The clinic provides low fee services onsite and in community settings to children and adults from diverse communities in the Detroit metropolitan area. Located in a Health Profession Shortage Area (HPSA) with high levels of poverty and unemployment, the Clinic addresses the unmet need for mental health services to medically underserved groups including the uninsured, ethnic minorities and special populations.

During the two year practicum, doctoral students provide psychological assessment and psychotherapy under the supervision of licensed psychologists from the faculty and from the professional community. Effective supervision has been characterized as psychology's "critical teaching method," often utilizing direct observation and timely feedback. The video system will systematically provide students

and supervisors with the kind of observational data needed to assist beginning student therapists with relationship building skills, increased self-awareness and competency working with diverse groups.



Dr. Cheryl Munday

VBRIT functionality includes onsite viewing, communication and recording; a portable unit for use at off-site service locations, and a laptop based viewing and communication software program for scheduled distance supervision and group consultation. VBRIT will enhance the clinic's training capacity by allowing supervisors to view students' sessions remotely and onsite. Most importantly, li-

censed psychologists from the professional community with highly specialized areas of multi-cultural and clinical expertise will use remote viewing and communication to provide supervision and group consultation. VBRIT significantly improves the university's clinical training and service infrastructure with the potential to enhance the research infrastructure.

## Collaborative Research Using a Community-Academic Model

Since 2007, Dr. Janet Baiardi has collaborated with Dr. Barbara Brush, FAAN, PhD from the University of Michigan and Sharon Lapidés, LMSW, President and CEO of Community Home Supports on a research project that is founded on a model of community-based participatory research. This non-profit social service agency works toward addressing the housing needs of homeless families and services to help elderly adults remain in their homes. With pilot funding from the Michigan Institute for Clinical and Health Research (MICHN) and the Michigan Center for Health Intervention (MICHHR), a community-academic partnership was formed with the purpose of eliciting the health and social needs of the community served from the perspective of that community.

A series of focus groups were held to determine new and ongoing problems and how well current services address them. Results from these focus groups provided the foundation for continued development of the collaborative and ongoing research. For example, based on the findings from the focus group with homeless families, which were primarily young African American women with children, the voiced need "for getting through it" and

"being someone more than someone without a home" prompted the team to seek additional funding to further explore the experiences of homeless African American women. A graduate nursing student from the University of Michigan interested in this area of research joined the collaborative and additional funding was secured from the University of Michigan Institute for Women and Gender to continue to understand the needs and give voice to homeless women and mothers.

There have been multiple outcomes based on this collaborative work. The partnership has expanded to include other non-profits, and Dr. Carla Groh from the University of Detroit Mercy recently joined the group. The collaborative works as a team to disseminate their findings and has been very successful. Four manuscripts have been authored and are either accepted or in press. Currently the team is working together to define specific research interests and secure some federal or foundation funding to continue this work. While collaborative research ventures and community-based participatory efforts are not without difficulties, there are benefits to both the academy and community organization. The ability to pool resources and mobilize talents among group members can maximize outcomes.

## Engineering and Health Professions Students Serve Real Clients

For the past two years, teams of undergraduate students in Engineering and the College of Health Professions have had the opportunity to design unique assistive devices for physically challenged clients. At the beginning of the term, each interdisciplinary team is paired with a physically challenged individual—an actual client for whom the students will design a device. Students meet with their client, who describes his or her needs. The team then develops a new technology to improve the client's quality of life. Through these Capstone projects, students gain both experience working with real clients and also designing projects that meet the client's specifications, soup to nuts. Students are able to collaborate with students from very different disciplines, see the practical application of their designs, and graduate with a level of work experience that is rare at the undergraduate level.

Three teams designed Capstone projects during winter semester 2010. Two teams designed electric wheelchair movers for persons in manually operated wheelchairs. These devices, improvements on commercially available versions, enable clients to remain in their manual wheelchairs while holding the handlebars of the electric mover—in effect, towing them



along. These devices are helpful when the client needs to transport multiple objects, for instance, in the grocery store. He or she still retains the maneuverability of the manual wheelchair while having the ability to use the electric mover to carry objects. One team designed an attachment to convert a manual wheelchair into an electric wheelchair. Because electric wheelchairs are heavier and more unwieldy than manual chairs, this device gives the client the flexibility of having both an electric and a manual chair to meet both needs. Other devices that have been designed by Capstone teams include a wheelchair accessible crib, a device created to improve tricep strength in a paraplegic client needing to self transfer from chair to car, and a device created to help an injured police officer use his right hand which was damaged following a gunshot wound. Students have presented papers based on their designs at the annual American Society for Engineering Education (ASEE) conference, and project directors Darrell Kleinke (Mechanical Engineering) and Molly McClelland (McAuley School of Nursing) have presented at ASEE; the Michigan Academy of Science, Arts & Letters; and the American Association of Colleges of Nursing.

## North Korean Review Now Indexed in SSCI

The mission of North Korean Review, the only English-language journal in the world that focuses on North Korea, is to provide a forum for greater understanding of North Korean internal and external affairs. NKR addresses these issues in a unique way through the lens of focused research analysis and dissemination of information.

On October 12, 2009, Thomson Reuters announced the selection of NKR for inclusion in the prestigious Social Sciences Citation Index (SSCI), only four years after NKR's 2005 inaugural issue. NKR provides academics and policy makers with a more complex examination of North Korea's economics, politics, and international relations than is otherwise available to them through mainstream sources. Editor Suk Hi Kim, professor of international finance at the University of Detroit Mercy, and McFarland & Company, Inc., Publishers founded this non-partisan, non-proprietary journal in April 2004. The NKR is part of UDM's Institute for North Korean Studies (INKS), the only research center in North America or Europe which is focused on North Korea.

The journal is international and interdisciplinary, publishing policy-oriented articles, short papers, commentar-



**Dr. Suk Hi Kim**

ies, and case studies on all aspects of North Korea. Fall 2010 articles address issues such as North Korea's strategy of brinkmanship in foreign policy in the context of game theory, Korean relations with Japan and the role of the pachinko gaming industry as a source of financial support for the North Korean regime, disappearing "son-preference" in North Korea, and how drug trafficking in Korea is moving from state control to private participation. Dr. Kim's Editor's Comments discuss North Korea's third wave of collapse since the 1980s, a phenomenon, Dr. Kim argues, largely triggered by Kim Jong-il's poor health, North Korea's food shortages, and its failed currency/economic reforms. For additional information about the INKS or the NKR, please visit the website at <http://business.udmercy.edu/ink/index.htm>

## Ford Foundation Supports Research on Grassroots Organizing

UDM's Detroit Collaborative Design Center is teaming with Building Partnerships USA to research politics, grassroots movements, policy, and local government in metro Detroit. The Ford Foundation granted the DCDC a total of \$290,000 to fund two related studies, one an analysis of city government, and the other an examination of grassroots movements in the region.

An advocacy organization focused on assisting community-labor coalitions, Building Partnerships contends that an understanding of the current political context, and how it affects people living in the city, is necessary to formulate an effective strategy for change. These studies will take an in-depth look at how current governmental policies and political players affect Detroit residents' quality of life and capacity for democratic engagement.

The research will ask the following penetrating questions. 1) What are the current "issue areas" of

community efforts, and what policies exist to address them? 2) Who has authority over policies in the region? 3) How capable is Detroit's government of facilitating and implementing innovation? 4) What is the historical context of grassroots movements in the region, and what are the current trends and current capacity of these movements?

The DCDC and Building Partnerships USA are working on a Request for Qualification (RFQ) to select subcontractors to conduct research in each of these four areas. Subcontractors will review media coverage, relevant published material, socioeconomic data and government documents, as well as conducting interviews and developing draft and final reports of their findings. The final report and synthesis of research is targeted for completion in May 2011.

### OSPRA Report

The first four months of Fiscal Year 2011 have been great for sponsored programs. Thanks to the American Recovery and Reinvestment Act (ARRA), better known as the Recovery Act, and the newly passed Affordable Care Act (ACA), hundreds of thousands of new dollars have come into UDM to support your important work. Among the highlights are several grants from the Health Resources and Services Administration (HRSA), including the Advanced Nursing Education Expansion grant through the Affordable Care Act (\$760,000), a Scholarships for Disadvantaged Students grant partly funded through the Recovery Act (\$123,301), an equipment grant to fund video conferencing equipment for the psychology clinic through the Recovery Act (\$81,165), a Dental Reimbursement Program grant to assist HIV patients (\$105,000), and an expanded Nurse Faculty Loan Program grant (\$88,159). UDM also received a second appropriation from the Department of Energy for renovations to the chemistry building (\$800,000). Dr. Stokes Baker received a grant from the National Science Foundation (NSF) entitled, "Developing Fluorescent Mini-Microarrays for Undergraduate Instruction" (\$216,989). In addition to this government funding, several faculty members have been successful with foundation grants since July. The Detroit Collaborative Design Center received two grants from the Ford Foundation to conduct analyses of Detroit city government and grassroots movements in the metro area (\$290,000 total). The DCDC also received a \$50,000 grant from the Erb Foundation to support a landscape architect. Dr. Richard Hill was granted \$32,532 from MathWorks, Inc. to develop a controls tutorial, and Drs. Carla Groh and Andrea Kwasky were awarded a prestigious grant from the American Psychiatric Nursing Foundation to study Vitamin D and depression in young African American women (\$5,000). Additionally, the Institute of Leadership and Service received a \$37,000 grant from the Campus Kitchens Project in Washington DC to begin a Campus Kitchen at UDM, and Dr. Sheri Pickover received a \$25,000 grant from the Flinn Foundation to support the Counseling Clinic. Shorebank Enterprises awarded Noah Resnick \$5,000 for design work related to revitalization of Roosevelt Park. Please note that this list of foundation grants includes funding for research and also for programs and projects. Corporate and foundation grants for non-research related projects were shepherded by University Advancement.

## IRB FAQs

In prior columns, IRB FAQs addressed what constitutes human subjects research according to the Common Rule, i.e., when a project must be submitted to the IRB, and also when a project qualifies for an exemption from the IRB chair. All projects qualifying as human subjects research must be submitted to the IRB even if they qualify for an exemption from the chair, in UDM's case, Dr. Elizabeth Hill. There are six categories of exempt projects, usually studies which involve pedagogical research, quality/evaluation studies, and research utilizing public information (please refer to the April 2010 issue for a more in-depth discussion of exempt projects). Even if a research project does not qualify for an exemption, it may qualify for an expedited review if it meets certain criteria. An expedited review means that the IRB application does not need to be reviewed by the full board; it can be approved by the chair. The most important criteria for an expedited review is that the study must not pose more than minimal risk to human subjects. The concept of risk extends beyond physical risk to emotional discomfort and risk to confidentiality. The expedited review procedure may not be used if identification of subjects and/or their responses would place them at risk of criminal or civil liability or be damaging to a subject's financial standing, employability, insurability, reputation, or be stigmatizing. Likewise, the expedited review procedure cannot be used for classified research involving human subjects, or any

research involving vulnerable populations. Generally, research on drugs or devices which do not require an investigational new drug application (i.e. marketed drugs) are eligible for expedited review, as is the collection of biological specimens or other routine clinical data by noninvasive means. (Any procedures involving x-rays or microwaves, however, are not eligible for an expedited review.) Collection of blood samples can also be eligible for expedited review, as long as draws remain within a certain amount and frequency (exact amounts are listed on the website). Research involving materials that have previously been collected for non-research purposes usually qualify. Collection of data from voice, video, digital, or image recordings can likewise be expedited. Many kinds of social research—research employing survey, interview, oral history, focus group, program evaluation, human factors evaluation, or quality assurance methodologies—can be expedited, as long as it poses no more than minimal risks to subjects and does not focus on a vulnerable population. More detailed and specific criteria for expedited review can be found on the website: <http://www.udmercy.edu/academicaffairs/ospra/irb/index.htm> The IRB FAQ column in future issues of the newsletter will address additional questions about full board reviews, as well as questions about our IRB training program, [www.citiprogram.org](http://www.citiprogram.org).

## Reminders from OSPRA

- ◆ UDM is implementing a new effort reporting policy. If you have time and effort charged to sponsored programs, please see the Effort Reporting website at <http://www.udmercy.edu/academicaffairs/ospra/effortreporting/index.htm> for the new policy and the new forms. The first round of new forms will be due on January 15, 2011 to cover fall semester 2010.
- ◆ UDM subscribes to COS funding opportunities, an easy-to-use grants database with more than 25,000 opportunities listed. OSPRA will be happy to meet with you or your department to train you on how to use COS. You can find COS via the OSPRA website, the library database, or at [www.cos.com](http://www.cos.com)
- ◆ If you need statistical assistance on your project, please contact Cate Caldwell at OSPRA for a list of statistical consultants.
- ◆ If you would like to see your or a colleague's project highlighted in future issues of this newsletter, or if you have ideas for Research@UDM workshops, please contact Cate Caldwell at [caldwecr@udmercy.edu](mailto:caldwecr@udmercy.edu) or at 313-993-1544.

## NEH Visit in March

On March 28, 2011, the University of Detroit Mercy (UDM) will host Elizabeth Arndt, senior program officer in the Division of Research Programs of the National Endowment for the Humanities, for a morning, half-day workshop on NEH funding opportunities. Ms. Arndt will also be available during the afternoon for one-on-one meetings to discuss individual projects.

This free event is open to faculty from UDM and from regional colleges and universities as well as independent scholars and representatives from libraries, museums, and other humanities-related non-profits.

A wide range of humanities funding opportunities are available through the NEH, including individual fellowships, collaborative grants, institutional challenge grants, summer seminars and stipends, digital humanities projects, and teaching development. More information on NEH grants and deadlines can be found at <http://www.neh.gov/grants/grants.html>.

Details regarding the schedule, as well as information about how to register for the workshop and/or one-on-one sessions, will be forthcoming.

## Faculty Scholarship Highlights

### Faculty Scholarship Highlights April 2010 – September 2010

Please note that the library keeps more comprehensive lists of faculty publications over time. Please see the website at [http://research.udmercy.edu/find/special\\_collections/print/faculty\\_selection.php](http://research.udmercy.edu/find/special_collections/print/faculty_selection.php).

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Sosne, G., Qui, P., and **Wheater, M.** "Thymosin beta 4 and corneal wound healing: vision of the future." Ann. NY Acad. Sci., v. 1194, 2010, pp. 190-198.

Spulber, M.; **Schlick, S.** "Using Cyclodextrins to Encapsulate Oxygen-Centered and Carbon-Centered Radical Adducts: The Case of DMPO, PBN, and MNP Spin Traps," J. Phys. Chem., v. 114 no. 21, 2010, pp. 6217-6225.

**Stevens, Jonathan E.**, Macomber, Lindsey M., Davis, Lauren W. "IR Spectra and Vibrational Modes of the Hydrofluoroethers CF<sub>3</sub>OCH<sub>3</sub>, CF<sub>3</sub>OCHF<sub>2</sub>H, and CF<sub>3</sub>OCHF<sub>2</sub>CF<sub>2</sub>H and Corresponding Alkanes CF<sub>3</sub>CH<sub>3</sub>, CF<sub>3</sub>CF<sub>2</sub>H, and CF<sub>3</sub>CF<sub>2</sub>CF<sub>2</sub>H," The Open Physical Chemistry Journal, v. 4, 2010, pp. 17-27

Ward, R., Popson, H., **DiPaolo, D.** "Defining the alpha female: A female leadership measure." Journal of Leadership and Organizational Studies (Current Issues in Management), v. 17, no. 3.

Weisfeld, G., Nowak, N.T., Lucas, T., **Weisfeld, C.C.**, Imamoglu, E.O., Butovskaya, M., Shen, J., & Parkhill, M. "Do women seek humor in men because it signals intelligence: A cross-cultural test." HUMOR: International Journal of Humor Research. *In press*.

**Zeff, Lawrence and Higby, Mary.** "Rx for Team Effectiveness: Matching Technical/Political Skill Sets with Environmental Turbulence" Journal of Business Management and Change, v. 5 no. 1, 2010, pp. 35-52.

## Presentations/Proceedings:

Alnounou, Yasser, Haidar, Mahmoud, **Paulik, Mark** and **Al-Holou, Nizar.** "Service-Oriented Architecture: On the Suitability for Mobile Robot Communication." IEEE International Conference on Electro/Information Technology, 2010.

**Anthony, Maureen.** "Student Nurse Experiences of Incivility in Clinical Education" RWJ Enhancing Nursing Undergraduate Teaching and Learning in the Clinical Setting, Arlington, VA, October 2010.

**Anthony, Maureen.** "Student Nurse Experiences of Incivility in Clinical Education" National League for Nursing Education Summit, Las Vegas, NV, September 2010.

**Anthony, Maureen.** "Student Nurse Experiences of Incivility in Clinical Education" Nurse Educator Institute, Branson, MO, April 2010.

**Baker, S.S.** "Broader impact: Connecting basic research with education." Annual meeting Botanical Society of America, Providence, RI, August 2010.

**Baker, S.S.** "Undergraduates developing a rapid cycling *Brassica rapa* transformation protocol." Annual meeting Botanical Society of America, Providence, RI, August 2010.

**Baker, S.S.** "Quantitative detection of GFP expression with digital SLR cameras." Annual meeting Botanical Society of America, Providence, RI, August 2010.

**Baker, S.S.**, D. Hazelwood, and B. Brown. "Using ImageJ in Teaching and Research." Annual meeting Botanical Society of America, Providence, RI, August 2010.

Baroodi, Rami, and **Al-Holou, Nizar.** "Designing a Course on Jini-Based Vehicle Network Security." FECS'10: International Conference on Frontiers in Education: Computer Science and Computer Engineering, Las Vegas, NV, July 2010.

**Bee, Mary, Grabowski, Greg, Montante, James.** "Anatomical Education: Bringing A Dead Science to Life Through A Hybrid Online Approach." American Association of Anatomists, Anaheim, CA, April 2010.

**Blume, L. B. , & Readdick, C. A.** "Carlitos' Cow: A Children's Picture Book." In Families: Connections and Communication across Species. Groves Conference on Marriage and Family, Seattle, WA, June 2010.

**Broughton, Richard.** "Intervening Departmentalism," Constitutional Law Colloquium, Loyola University of Chicago School of Law, Chicago, IL, November 2010.

**Broughton, Richard.** "Punishment, Proportionality, and Popular Institutions," 2010 Symposium on Crime & Punishment, Charleston School of Law and The Riley Center at Furman University, Charleston, SC, February 2010.

**Crabtree, Claire.** "The Consecrated, Contaminated Land in Faulkner's *Go Down, Moses* and Morrison's *Beloved* ." Center for Faulkner Studies Conference, South East Missouri State University, Cape Girardeau, MO, October 2010.

**Daimi K., and Wang L.,** "Examining Class Dropping with Data Mining," The 2010 International Conference on Data Mining (DMIN'10), Las Vegas, NV, July 2010.

**Daimi K., and Snyder K.,** "Converting a Graduate Computer Science Program into Software Engineering," The 2010 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'10), Las Vegas, NV, July 2010.

**Daimi K., and Grabowski G.,** "A Component-Based Professional Science Master in Bioinformatics," The 2010 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'10), Las Vegas, NV, July 2010.

**Daimi K., and Song J.,** "An Approach to Secure E-Visit Systems," The 2010 International Conference on Security and Management (SAM'10), Las Vegas, NV, July 2010.

**Daimi K., Al Holou N.,** and Mohammed U., "An Interdisciplinary Minor in Computer and Network Security," The 2010 International Conference on Security and Management (SAM'10), Las Vegas, NV, July 2010.

**Daimi K., Li L.,** Lu X., and El-Nazeer N., "Requirements Engineering for Home Health Care Software Systems," The 2010 International Conference on Software Engineering Research and Practice (SERP'10), Las Vegas, NV, July 2010.

**Das, Shuvra, Hanifin, Leo E.,** Newell, Sean. "A New Responsive Model for Educational Programs for Industry: The University of Detroit Mercy Advanced Electric Vehicle Graduate Certificate Program," paper 2010-01-2303. SAE Convergence, Detroit, MI, October 2010.

**Dauphin, V.B., Greene, H.H.,** Juve, M., and Burnett, V. "Card sequence, eye movements and the Rorschach." Annual conference of the American Psychological Association, San Diego, CA, 2010.

**Deines, Amy,** and Deines, Kelly. "Hospitality, if fell within the session entitled, "Can Hospitality Reshape Our Cities? Provocative Ideas for The Urban Core." HD Expo Conference, Las Vegas, NV, May 2010.

**Demir, M., & Putnam, R. T.** "Effects of virtual manipulatives with two different instructional approaches on students' knowledge of slope." The annual meeting of the American Educational Research Association (AERA), Denver, CO, 2010.

**DiPaolo, D.** "Leadership After Graduation: Student leaders facing an uncertain future." Student Leaders Keynote and Workshop, University of South Florida, Tampa, FL, April 2010.

**DiPaolo, D.** "LeaderNext." Inaugural Emerging Leaders Conference Keynote and Workshop, University of Georgia, Athens, GA, August 2010.

**DiPaolo, D.** "The Leadership Breakthrough." Student Leadership Conference Keynote, Florida Atlantic University, Boca Raton, FL, September 2010.

**Finkenbine, Roy E.** "Who will ... pay for their sufferings?: New York abolitionists and the campaign to compensate Solomon Northup," Annual Meeting of the Society for Historians of the Early American Republic, Rochester, NY, July 2010.

**Greene, H. H.** "Eye tracking: A window on visual information selection." Biennial congress of the International Society for Human Ethology, Madison, WI, 2010.

**Harrison, Mary-Catherine.** "Elizabeth Gaskell's Empathy Across Difference." Midwest Victorian Studies Association, University of Iowa, Iowa City, IA, April 2010.

**Harrison, Mary-Catherine.** "The Ethics of Direct Address: Vocative Discourse and Narrative Transportation." International Society for the Study of Narrative, Case Western University, Cleveland, OH, April 2010.

**Hill, E.M.**, Malcore, M.A. & Burnett, V. "Computer-aided coding of videotaped behavior." Biennial Congress of the International Society for Human Ethology, Madison, WI, 2010.

**Hill, R.C.** and Pena, P. "International Collaboration in an Undergraduate Controls Systems Course," 2010 American Society for Engineering Education Annual Conference & Exposition, Louisville, KY, June 2010.

**Hoback, A.**, and **Williams-Dupree, A.** "Commuter Rail Safety in the Presence of Freight Rail." Presentation at: Joint Rail Conference, Univ. of Illinois-Champaign-Urbana, Paper: JRC2010-36073, Sponsors: TRB, ASCE, ASME, Champaign, IL, April 2010.

**Hu, Hsiao-Lan** and Radford-Ruether, Rosemary. "Earth as Mother, Woman as Mother: On the Environmental Impact of Gender Essentialism." International Conference on Religion, Gender, and Ecology, Xinzhu, Taiwan, June 2010.

**Kwasky, A. N.**, "Testing the Effect of a Self Memory Intervention on Quality of Life Among Persons with Alzheimer's Disease." International Society of Psychiatric Mental Health Nurses, 12th Annual Conference, St.Louis, MO, April 2010.

Lancucki, Lukasz, **Schlick, Shulamith**, and Kruczala, Krzysztof. "Proton Conducting Non-fluorinated Polymers Used for PEM Fuel Cell Applications," XII National Polish Meeting on Ion Conducting Materials, Ustrome, Poland, December 2010 (presented by K. Kruczala).

Lee, Y., **Greene, H. H.**, & Hearn, P. L. "Culture and attention strategy: Do you see as I see?" Biennial congress of the International Society for Human Ethology, Madison, WI, 2010.

Lee, Y., **Greene, H. H.**, & Hearn, P. L. "Culture and eye movement strategy during visual search (Part I)." Annual conference of the Midwestern Psychological Association, Chicago, IL, 2010.

**McClelland, Molly.** "Innovative Classroom Games used to Enhance Nursing Education". Biennial Innovations in Faith-Based Nursing Education Conference, Indiana Wesleyan University, Marion, IN, June 2010.

**McClelland, Molly.** "Overcoming Disabilities through Interdisciplinary Collaboration". Michigan Academy of Science, Arts & Letters Annual Conference. Calvin College, Grand Rapids, MI, Spring 2010.

**McClelland, Molly.** "Innovative Collaboration between Colleges to Improve Disabilities and Enhance Nursing Education". AACN's 2010 Baccalaureate Education Conference. Orlando, FL, November 2010.

Nowak, N.T., Weisfeld, G.E., **Weisfeld, C.C.**, Imamoglu, E.O., Shen, J., and Butovskaya, M. "Attractiveness and Spousal Infidelity as Predictors of Infidelity in Couples from Five Cultures." Annual meeting of the International Society for Human Ethology, Madison, WI, August 2010.

Potisek, Deborah, L., and **Greene, H. H.** "Impulsivity and the window of attention during visual search," Annual conference of the Southern Society for Philosophy and Psychology, Atlanta, GA, 2010.

**Presbey, Gail M.** "Can Philosophy and Anthropology Combine to Carefully Understand Philosophical Thoughts Cross-Culturally? Reflections on Kai Kresse's Philosophizing in Mombasa," International Society for the Oral Literature of Africa conference, Mombasa, Kenya, July 2010.

**Ross, Robert.** "A Nanotechnology Application for Physics Laboratory Courses Proceedings." ASEE 2010 North Central Sectional Conference, Pittsburgh, PA, March 2010.

**Rouen, P., Baiardi, J. & Dosch, M.** "The DNP: Tapping Expertise to Achieve Excellence and Efficiency." 36th Annual Meeting of the National Organization of Nurse Practitioner Faculties. Nurse Practitioner Education: At the Heart of Health Care, Washington DC, April 2010.

**Rouen, P.** and O'Connor, N. "From Competition to Collaboration: Demonstrating Nursing Educational Leadership within an Academic DNP Program Consortium." 3rd National Doctors of Nursing Practice Conference. San Diego, CA, September 2010.

**Sabbaghi, Omid** and Sabbaghi, Navid. "Volatility and Trading Volume: Evidence from the Chicago Climate Exchange." Southwestern Finance Association Annual Meeting, Dallas, TX, March 2010.

**Sabbaghi, Omid.** "The Behavior of Green Exchange Traded Funds." Academy of Finance Annual Meeting, Chicago, IL, March 2010.

**Sabbaghi, Omid.** "Estimating Volatility using Rmetrics." Financial Education Association Annual Meeting, San Antonio, TX, October 2010.

Sartini, M., Paoli, A., **Hill, R.C.** and Lafortune, S. "A Methodology for Modular Model Building in Discrete Automation," IEEE Conference on Emerging Technologies in Factory Automation, Bilbao, Spain, Sept 2010.

**Saunders, Mitzi.** "Caring for a Family Member with Heart Failure: The Caregiver's Perspective," Joanna Briggs International Evidence-Based Conference, Chicago, IL, September 2010.

**Schlick, Shulamith.** "Polymer Degradation and Stabilization by ESR and ESR Imaging Methods: From Heterophasic Polymers to Ionomer Membranes Used in Fuel Cells," Georgia Institute of Technology, Atlanta, GA, March 2010 (Invited Seminar).

**Schlick, Shulamith**, Lin, Lu, Danilczuk, Marek, Hamrock, Steven J., and Schaberg, Mark S. "FTIR Study of Perfluorinated Ionomer MEMBRANES and Model Compounds," ACS National Meeting, Boston, MA, August 2010 (presented by M. Danilczuk).

**Schlick, Shulamith** and Spulber, Mariana. "Degradation Mechanism of Perfluorinated Ionomer Membranes: A Study of Model Compounds," ACS National Meeting, Boston, MA, August 2010 (presented by M. Spulber).

Wadlington, L., Carter, J., and **Kwasky, A. N.** "Integrating a Dedicated Education Unit into Mental Health Clinical Experiences." Veteran Affairs Nursing Academy National Conference, Chicago, IL, August 2010.

**Weisfeld, C.C.** "Ethological Methods for Observing Behavior: Old School, New School." Paper presented as part of a symposium on Observational Methods. Annual meeting of the International Society for Human Ethology, Madison, WI, August 2010.

**Young, Nicholas B.** "I found a city of brick and leave a city of marble--Augustus as city planner and builder," American Classical League Institute, Wake Forest University, Winston-Salem, NC, June 2010.

## Awards:

**Kevin Daimi** received the Outstanding Achievement Award in Recognition and Appreciation of Leadership, Service and Research Contributions to the Field of Network Security at the 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLFCOMP'10).

**Lawrence A. Dubin** was a speaker at the Michigan Judicial Institute's Annual Meeting at the Grand Hotel on Mackinac Island in August, 2010. The topic of the speech concerned the limits on the free speech of lawyers.

**Mary-Catherine Harrison** was given the Robert Hacke Scholar-Teacher Award by the College English Association.

**Saran Hollier** received an award from the nursing organization Sigma Theta Tau, Lamda Zeta Chapter, University of Detroit Mercy in May 2010 to conduct research specific to Coping with Racism as it relates to the health of African Americans.

**Hsiao-Lan Hu** was awarded the 2010 Faculty Summer Stipend for Course Development by the University of Detroit Mercy Jesuit Associates for research for a new course entitled "Religions and Global Wellbeings."

**Andrea Kwasky** was inducted into the Outstanding Alumni Academy of the College of Health and Human Services, Western Michigan University, School of Nursing.

**Jason John Roche** served as the Assistant Director and Location Manager of the documentary "7 Days, 17 Hours: Chasing History on the Pony Express Trail," which screened at the Postal Museum of the Smithsonian Institution in Washington, D.C. on Sunday, November 7, 2010.

**John Staudenmaier** was named Editor Emeritus of the Society for the History of Technology after three five year terms as editor-in-chief of the Society's peer reviewed journal, Technology and Culture.

**Greg Trzaskoma** performs as Guard Peterson in the upcoming motion picture STONE starring Robert DeNiro and Edward Norton, in national release October 22, 2010. This film was shot in and around the Southern Michigan Correctional Facility in Jackson, MI during the summer of 2009.

## Student work:

**Daimi K.**, and **Song J.**, "An Approach to Secure E-Visit Systems," The 2010 International Conference on Security and Management (SAM'10), Las Vegas, NV, July 2010.

**Daimi K.**, **Li L.**, Lu X., and El-Nazeer N., "Requirements Engineering for Home Health Care Software Systems," The 2010 International Conference on Software Engineering Research and Practice (SERP'10), Las Vegas, NV, July 2010.

**Daimi K.**, and **Wang L.**, "Examining Class Dropping with Data Mining," The 2010 International Conference on Data Mining (DMIN'10), Las Vegas, NV, July 2010.

**Hoback, A.**, **Williams-Dupree, A.** "Commuter Rail Safety in the Presence of Freight Rail." Presentation at: Joint Rail Conference, Univ. of Illinois-Champaign-Urbana, Paper: JRC2010-36073, Sponsors: TRB, ASCE, ASME, April 2010.

**Rozenberg, Zhanna.** "Attachment and the Plight of Foster Care Children," Annual meeting of the International Society for Human Ethology, Madison, WI, August 2010.