



# Research@UDM

Highlighting Research and Sponsored Programs at the University of Detroit Mercy

Winter 2011

## In this issue

- ◆ NEH Visits UDM (p. 1)
- ◆ SHAR Recovery Park (p. 2)
- ◆ MIOH-UTC (p.3)
- ◆ UDM SOD Students (p. 3)
- ◆ Vitamin D and Depression (p.4)
- ◆ Juvenile Offender Treatment Program (p.4)
- ◆ Green Investing (p.5)
- ◆ Campus Kitchen (p.5)
- ◆ Metal Foam (p.6)
- ◆ Reminders from OSPRA (p.6)
- ◆ Online Recruitment of Research Subjects (p.7)
- ◆ Faculty Highlights (pp. 7-11)

## National Endowment for the Humanities Visits UDM

On March 28, 2011, National Endowment for the Humanities (NEH) senior program officer Elizabeth Arndt conducted a half-day grant application writing workshop at the University of Detroit Mercy. Arndt, whose training is in musicology, has read and evaluated thousands of proposals in nearly every field during her 30 years at the NEH.

The audience was comprised of faculty from UDM and other Michigan universities, as well as representatives from libraries, museums, and other humanities-related non-profits. Also in attendance were the new Executive Director of the Michigan Humanities Council (MHC), Katie Wolf, and MHC program officer Gregory Parker, who began the morning with a brief overview of funding programs available through the state humanities council.

Following this brief introduction, Arndt gave an overview of NEH's eight divisions and their associated grant programs, followed by a tips and strategies session, and ending with a mock panel discussion. During this session, Wayne State University professors Jeffrey Abt and Arthur Marotti joined UDM's own Roy Finkenbine to discuss and evaluate sample proposals provided by NEH. The purpose of the mock panel session, according to Arndt, is to provide workshop participants with an inside look at how their proposals are evaluated.

In addition to conducting the workshop,



NEH Program Officer Elizabeth Arndt

Arndt met with several participants one-on-one on Monday afternoon and Tuesday morning to discuss potential applications. "I find applicants' ideas and projects endlessly interesting," she said, "and I appreciate the chance to talk in person with so many of them."

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>.

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## RecoveryPark: Transforming Detroit One Neighborhood at a Time

Charles Cross, an architect at UDM's Detroit Collaborative Design Center (DCDC), is helping to transform Detroit, one neighborhood at a time. The DCDC, with Charles Cross as the project lead, is part of a growing task force created to help with the outreach, design, support, and strategic planning for the SHAR RecoveryPark. A planned development in the city of Detroit, RecoveryPark will include urban farming, education, commercial and housing development and other projects that will help the community as a whole. "We hear a lot of talk about bringing the city back," says Cross. "If we build a new stadium or factory or bridge, it will bring the city back. But what we're focused on is transforming Detroit at the neighborhood, and community, level."

Cross, whose position is currently funded by the Erb Foundation, has been participating in multiple levels of research on the project since October 2009. Research has targeted four areas in the city, Brightmoor, Southwest, the Far East Side and the Near East Side, with the most progress made on the latter.

Cross and other project partners realized that the first thing they needed was buy-in from people living in those communities. This strategy of active community engagement has been integral to the project since its inception, and has reassured community members that they will continue to be part of the neighborhoods. "People were afraid that they would be pressured to sell their homes in order to knock them down and rebuild," says Cross. "We needed to let people know that we want to repurpose vacant properties in a way that will benefit them and work with existing community assets." Part of this endeavor was to conduct a community needs assessment, which included not only open-ended feedback, but also an analysis of Strengths, Weaknesses, Opportunities and Threats. The team also analyzed the

social, economic, and environmental characteristics of issues raised by the community, which resulted in recommendations for action.

The project team has been meeting with other stakeholders as well. "We meet with a different legislator every Monday," says Cross. "The next step is to meet with agencies in Washington."

In addition to establishing relationships with the communities, the project team has conducted an analysis of vacant properties in the neighborhoods, starting with the Near East side (I-75 to Grand Blvd., I-94 to the Detroit river).

The team tallied the number of properties, the prior use of each, the condition of the buildings, access to water and transportation, and whether there are any issues with contamination. They then conducted extensive agricultural research – what are the best crops for urban farming in Michigan? "We've got 136 types of crops that can grow here," says Cross, "Michigan is second only to California with regard to crop diversity." In addition to gardens, the project team has been exploring the possibility of a fish farm in Eastern Market.

But it's not entirely about locally driven food systems. RecoveryPark will include education, commercial, housing, and other shared community spaces, such as performance spaces.

"We are really creating our own precedent," says Rocco Castiglione, a 4<sup>th</sup> year UDM student working on the project. "We're looking at a three pronged approach— economic, environmental and social. No one has done that before, so we're looking at precedents in each of these areas and coming up with a new approach that encompasses them all."

The SHAR RecoveryPark is targeted for completion in 2019.



Recovery Park site on Chene Street,  
Original site and Concept Rendering of new site

## UDM Civil & Environmental Engineering Graduate Student Named Outstanding Student of the Year by MIOH University Transportation Center

In recognition of significant contributions to research and exemplary academic performance, the Michigan Ohio (MIOH) University Transportation Center (UTC) selected UDM Civil & Environmental Engineering graduate student Eric John Tenazas as its 2010 Outstanding Student of the Year. Tenazas, who recently earned a Master of Engineering degree at UDM, has been involved in three transportation projects funded by the MIOH UTC. Tenazas collected and analyzed key data for these projects, completing tasks instrumental to study objectives.



Prof. Utpal Dutta, Eric John Tenazas, Dean Leo Hanifin

Tenazas is one of many students at Michigan and Ohio universities whose research assistantship is funded by the MIOH UTC. The UTC is a coalition of government, industry, and five regional universities—Bowling Green State University (BGSU), Grand Valley State University (GVSU), The University of Toledo (UT), Wayne State University (WSU) and the University of Detroit Mercy as the lead institution. This coalition, born in 2006, is part of a nationwide academic network of UTCs funded by the U.S. Department of Transportation to address issues of a nation on the move in a global economy. The goals of this UTC are 1) to improve efficiency and use of existing transportation infrastructures, including congestion mitigation through intelligent transportation systems, 2) to reduce energy dependence through alternative fuels and alternative energy-powered vehicles, and 3) to enhance supply chain perform-

ance. The MIOH UTC works toward achieving these goals by making grants in these areas to research teams from the five partner universities.

The Transit-Oriented Development study, a MIOH UTC funded project co-led by UDM Civil & Environmental Engineering faculty member Utpal Dutta, was one of three projects on which Eric Tenazas participated as a research assistant. The team, comprised of UDM and WSU researchers, examined two selected station sites along a proposed light-rail transit

system on Woodward Avenue, one in Detroit and one in a northern suburb. Tenazas served as an enthusiastic project representative to both cities, excited about the possibilities for economic revitalization the project explored.

This project received support from the U.S. Department of Transportation, the Michigan Department of Transportation, Wayne State University and the University of Detroit Mercy. As a result of his work on this study, Tenazas was invited to present findings at the Intelligent Transportation Society of Michigan's 2010 Annual Meeting.

In recognition of his selection as the MIOH UTC Student of the Year, Tenazas was honored at the Council of University Transportation Centers banquet in Washington D.C. this past January along with students from UTCs across the nation.

## UDM School of Dentistry Students Stand Out at ADEA and IADR

Several UDM School of Dentistry students participated in the 2011 American Dental Education Association (ADEA) annual session held in San Diego on March 12-16. Sarmad Alyas (DS2), Jenna Lau (DS2), Thomas Christy (DS4), and Jonathan Blatt (DS4) were co-authors on posters presented by School of Dentistry faculty at the meeting. Alyas, Lau, and Blatt competed for student awards by presenting the posters to a panel of judges. Mark Parete (DS3) was one of ten students chosen to participate in the ADEAGies Foundation/AADR Academic Dental Careers Fellowship Program. This is a year-long program in which a student works with a faculty mentor to experience aspects of academic dentistry. Parete will be mentored by Professor Michelle Wheeler. Several other students including Jerek Petrous were delegates to the Council of Students, Residents, and Fellows and had a voice in determining new ADEA resolutions.

School of Dentistry students also participated in the 2011 International Association for Dental Research annual session which was held immediately after ADEA (March 16-19) also in San Diego. Punit Shah, Joe Chang, Christopher Pearce, Hyden Choi, Brett Bullard, and Arend Klooster presented their research in poster format throughout the session. Jennifer Shango was chosen to give an oral presentation on her study "EGCG Inhibits Inflammatory Effects of Nicotine in Gingival Epithelium." Her presentation was well-received and generated much discussion in her section. The students contributed to National Student Research Group activities, and Punit Shah was elected as the Regional Representative for the NSRG.

In all our UDM students attending both ADEA and IADR had an invaluable opportunity to interact with other dental and dental hygiene students from across the country, to learn about new dental educational initiatives, and to discover new avenues of dental research.

## Vitamin D and Depression Study Funded by American Psychiatric Nurses Foundation

The American Psychiatric Nurses Foundation (APNF) awarded McAuley School of Nursing faculty members Andrea Kwasky and Carla Groh a prestigious grant to investigate the relationship between vitamin D and depression in young women. One of only three funded applications nationwide in 2010, this study contributes to a growing body of knowledge examining the potential link between vitamin D levels and brain functions. Since depression is emerging as one of the leading causes of morbidity and mortality in young adults, with one in four suffering a depressive episode between the ages of 18 and 25, the need to more accurately assess for depression in young people is critical. Vitamin D deficiency has been correlated with depression in a number of studies with adults, and several studies have shown that African Americans, particularly African American women, have lower levels of vitamin D than other groups. Since females have a higher incidence of depression than their male counterparts, researchers hypothesized a correlation between vitamin D deficiency and depression in young women. Data were collected from 139 female college-aged students (83 African American, 56 Caucasian). Participants completed a health questionnaire, had their serum vitamin D levels drawn, and completed the Beck Depression Inventory (BDI-II) -- a 21-question multiple-choice self-



Prof. Andrea Kwasky with Linda Beeber, APNF Grant Review Committee Chair

report inventory used to measure the severity of depression. This study confirmed previous research that African Americans have lower vitamin D levels than their Caucasian counterparts. However, this study found no correlation between vitamin D and depression – contrary to prior research findings with adult females. A contributing factor may be that, in January 2011, the Institute of Medicine (IOM) released new dietary requirements, concluding that the prevalence of vitamin D inadequacy in North America has been over-estimated. The IOM determined that people need less vitamin D than was previously thought, and has lowered the

serum cut-point for vitamin D deficiency. Since the researchers were using a higher serum cut-point to determine deficiency, they plan to revisit the data in light of the new dietary requirements. Another factor may be that, according to responses on the health questionnaire most of the study participants were able to identify multiple healthy coping mechanisms to deal with intermittent sadness or depression. Kwasky and Groh plan to continue their research into vitamin D and depression, and will present their results at the American Psychiatric Nurses Foundation (APNF) conference in Anaheim, California in October 2011.

## Counseling Professor Designs New Treatment Program for Juvenile Sex Offenders

Nancy Calley, Associate Professor and Chair of the Department of Counseling and Addiction Studies, has been selected to lead the design and implementation of juvenile sex offender treatment for the California Department of Corrections and Rehabilitation. Calley was specifically invited to bid on this competitive contract as a result of her scholarship and previous nationally funded work in this area. Her two most recently federally-funded juvenile sex-offender specific projects include a \$500,000 grant from the Bureau of Justice to lead region-wide juvenile sex offender management improvement project on behalf of Wayne County, and a \$250,000 grant from the Office of Juvenile Justice and Delinquency Programs to lead a multi-organization juvenile sex offender re-entry program project. Both prior projects were Michigan-based.

In addition, Calley recently completed a long-term program evaluation on a juvenile sex offender treatment that she helped to design, and has begun publishing the results of the study. One of the most meaningful findings of the study was a 3% recidivism (re-offense) rate which is among the lowest reported to date (recidivism rates for juvenile sex offenders typically range from 8-26% following treatment).

She is also currently conducting an outcomes evaluation of a re-entry planning/aftercare program for juvenile sex offenders in Wayne county.

The California project presents new challenges and learning opportunities to Calley, who is excited about its differences in scope and target population demographics. While the Michigan projects focused on males in residential treatment up to 21 years old, the California project will include both males and females between the ages of 12 and 25. Other significant differences in the California population include the degree and severity of gang activity, the preponderance of non-English speaking offenders and families, and the number of offenders who are illegal aliens.

The two year project began January 1, 2011 and will continue through December 31, 2012 and involves designing a new evidence-based treatment program for this specialized population of offenders, training staff for implementation, and designing and implementing an outcomes evaluation. The bulk of work will be conducted locally with limited travel to California.

## Does Sustainable Investing Pay Off?

Increasingly, sustainability has become a factor in today's global markets. Progressively more institutional investors—such as banks, insurance companies, and mutual funds—are investing in firms that are well-governed, environmentally friendly, and socially responsible. Such firms are often referred to as “green,” and promise a long-term value creation strategy. With this new style of investing comes the inevitable question—is there a positive relationship between environmental and financial performance? Does green investing, in fact, pay off?

Professor Omid Sabbaghi, from UDM's College of Business Administration, conducted an empirical analysis of green exchange-traded funds (ETFs) between January 2005 and November 2010 in an attempt to answer this question. Green ETFs are new financial instruments that invest in companies exhibiting positive environmental, social, and corporate governance (ESG) characteristics, and provide a low-cost approach to socially responsible investments. Sabbaghi's study is one of the first investigations of the return dynamics for these funds.

Specifically, Sabbaghi constructed an equally-weighted portfolio of green ETFs and compared its return performance to that of the S&P500 equity index. He identified a sample of 15 green ETFs through SustainableBusiness.com, which defines sustainable businesses as “Businesses that contribute to an equitable and ecologically sustainable economy.” Using data at the monthly fre-



Prof. Omid Sabbaghi

quency, Sabbaghi found that the green portfolio outperformed the S&P500 prior to the financial market collapse of 2008. However, he also found that these new financial instruments underperformed the S&P500 in the years following the financial market crash. In other words, green ETFs are not immune to market volatility, and they do not serve as hedges against it. Green ETFs are cyclical investments that carry a certain amount of risk. Results of this study suggest that investors proceed with caution when encountering similar financial instruments that are in a state of infancy. In his recent article in *Managerial Finance* entitled, “The Behavior of Green Exchange-Traded Funds,” Dr. Sabbaghi proposes a method for modeling volatility in the green investable universe.

Sabbaghi plans to continue this line of research with an examination of the trading volume of green securities over time. He will also investigate related green financial instruments such as the green bonds issued by the World Bank.

## Campus Kitchen at UDM

Program Manager Kaitlin Bowdler, from the Campus Kitchens Project in Washington D.C., visited campus in January 2011 to officially kickoff the Campus Kitchen at UDM. The Institute for Leadership and Service received a \$37,000 grant from the CKP to launch the project, which empowers college students to gather surplus food from their cafeterias, turn these donations into nourishing meals, and deliver those meals to those who need it most.

Twenty-eight Campus Kitchens around the country, at big schools, small schools, rural and urban, are managed entirely by students. Students plan the menus, get the food, run the cooking shifts, organize the drivers, and teach culinary skills to unemployed adults. Students also manage the project by tracking the project budget, organizing fundraisers, developing curriculum and recruiting new students.



(left to right) Fr. Tim Hipskind, Bridget Green, Philip Trotter, Dorothy Stewart, AVP Pamela Zarkowski, Kaitlin Bowdler, Drew Peters

Last spring, ILS was approached by Sodexo, UDM's campus dining services provider, about the prospect of launching a Campus Kitchen at UDM. The Sodexo Foundation supports the Campus Kitchens Project on a national level, and is therefore an ideal organization to partner with UDM on this project.

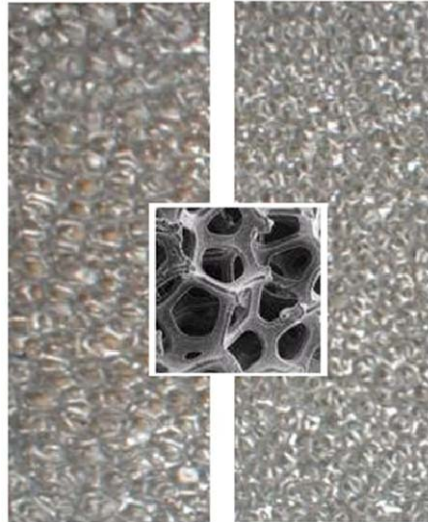
UDM students Phillip Trotter and Bridget Green are managing the Campus Kitchen at UDM as well as the associated grant funds, with the help of faculty advisors Father Tim Hipskind and Drew Peters. Students are now providing meals to homebound seniors on weekends, and

to homeless women and children at Peggy's Place. The Campus Kitchen team is already in conversation with one additional neighborhood partner and hopes to continue to expand the program. The hope is not only to deliver food, but also to develop strong relationships with neighborhood partners.

## Metal Foam: Research, Development and Applications

Mechanical Engineering Professor Nihad Dukhan has discovered a more efficient method of automotive waste heat recovery using metal foams. Metal foams are strong, lightweight, recyclable structures with many engineering applications – including improved heat transfer equipment. Dukhan and his team, which includes undergraduate students, found that metal foam enhances thermal conductivity for phase change materials – i.e. materials which release a large amount of energy when they change from solid to liquid or vice versa. In other words, metal foam enhances temperature control, storing waste heat and reusing it.

Metal foam is highly porous and very light—about 10% of the weight of an equivalent volume of metal. Additionally, it is open to fluid flow because of its sponge-like consistency. The foam is usually made by bubbling gas through molten metal or by consolidation of metal powder with a foaming agent (titanium hydride) and heating, which releases the hydrogen. Current metal foams are made out of aluminum, nickel,



steel, copper, brass, magnesium, zinc, tin, lead, titanium, and some of their alloys.

Dukhan's team has focused on developing reliable engineering models for mechanical behavior, NVH (Noise, Vibration and Harshness), heat transfer, and fluid mechanics. These models are geared toward designing, prototyping and testing metal foam systems and components for targeted applications. In addition to the heat transfer systems, other potential applications include catalytic reactors, high-power batteries and fuel cells.

In collaboration with Professor Nassif Rayess, researchers have developed two new hybrid composites by combining aluminum foam with various polymers, and characterized them in terms of strength, stiffness, creep, thermal conductivity and damping behavior. With this groundwork laid, the team looks forward to designing new systems for heat transfer and light-weight structures.

### Reminders from OSPRA

- ◆ If you had time and effort charged to sponsored programs during the winter 2011 term, please remember to complete your Effort Report. The policy and forms can be found on the website at <http://www.udmercy.edu/academicaffairs/ospra/effortreporting/index.htm>. Effort reports are due on May 15, 2011.
- ◆ 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.

## Online Recruitment of UDM Students, Faculty and Staff as Research Subjects

Computer and internet-based procedures are increasingly being used by investigators for advertising and recruitment of study participants. The text of the recruitment script, the context in which the recruitment takes place (e.g. posting a message on a newsgroup, mass emailing, and websites created for recruitment of participants) must be reviewed and approved by the IRB.

UDM does not allow unsolicited group e-mailing by researchers to its faculty, staff, or students. If researchers wish to recruit UDM faculty, staff or students as participants in a study, approval to send emails to these groups must be obtained from the Office of Sponsored Programs and Research Activities (OSPRA). Students and faculty should call the Director of OSPRA if they have any questions regarding subject recruitment emails sent out by investigators.

## Faculty Scholarship Highlights

### Faculty Scholarship Highlights October 2010 – March 2011

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).

#### Books

**Calley, N. G.** *Program development in the 21st century: An evidence-based approach to design, implementation, and evaluation*. Thousand Oaks, CA: Sage. 2011.

De Reus, Lee Ann, and **Libby Balter Blume**. *Groves Monographs on Marriage & Family, Vol. 1: Social, Economic, and Environmental Justice for All Families*. MPublishing, University of Michigan Library, Ann Arbor, MI. 2010 <http://dev.spo.lib.umich.edu/g/groves>

**Nantais, David**. *Rock-A My Soul: An Invitation to Rock Your Religion*. Liturgical Press, Collegeville, MN. 2011

Nassar-McMillan, Sylvia C., Spencer G. Niles, and **Garbette Montie Garraway (Contributing Author)**. *Developing Your Identity as a Professional Counselor*. Brooks/Cole, Belmont, CA. 2011

**Olson, Dennis Alan**. *Cases on Constitutional Law*. Vandephas Publishing, Lake Mary, FL. 2010

**Plantenberg, Kirstie**. *Engineering Graphics Essentials with AutoCAD 2011 Instruction*. SDC publications, Mission, KS. 2010

**Plantenberg, Kirstie**. *Engineering Graphics Essentials. 4th ed.* SDC publications, Mission, KS. 2010

#### Book Chapters

**Barrios, Rita M.**, and Yuri Signori. "RAM and File Systems Investigations." *CyberForensics: Understanding Information Security Investigations*. Ed. Bayuk, Jennifer. Humana Press, New York, NY. (2010): 103-116

**Beer, Arthur J.**, and **Libby Balter Blume**. "Social Justice Theatre: Malice Aforethought: The Sweet Trials." *Groves Monographs on Marriage & Family, Vol. 1: Social, Economic, and Environmental Justice for All Families*. Ed. De Reus, Lee Ann; Blume, Libby Balter. MPublishing, University of Michigan Library, Ann Arbor, MI. (2010): 125-136

**Eisenhauer, Joseph G.** "Degrees of Freedom in Inferential Statistics." *International Encyclopedia of Statistical Sciences*. Ed. Lovric, Miodrag. Springer-Verlag, Berlin, Germany. (2011): 365-367

**Flores, Juan Carlos**. "The Roots of Love of Wisdom: Henry of Ghent on Platonic and Aristotelian Forms." *Philosophy and Theology in the Long Middle Ages. A Tribute to Stephen F. Brown*. Speer, A.; Emery, K.; Friedman, R. (editors). Brill Academic Publishers, (2011)

**Hill, Richard**. "Discrete Event Systems." *Control System Fundamentals*. Ed. Levine, William. CRC Press, Boca Raton, FL. (2010): 5.81-5.99

**Kennedy, Daniel B.**, and **Robert J. Homant**. "Forensics in the Field: The Example of Profiling." *Transnational Criminology Manual*. Ed. Herzog-Evans, M.. Wolf Legal Publishers, Netherlands. (2010): 77-99

- Koukal, David R.** "Cellular Irruptions." *Phenomenology and Media: An Anthology of Essays from Glimpse, Publication of the Society for Phenomenology and Media, 1999-2008*. Majkut, Paul; Canan, Alberto J. L. Carrillo. Zeta Books, Bucharest, Romania. (2010): 253-266
- Rombes, Nicholas.** "Before and After and Right Now: Sequels in the Digital Era." *Second Takes: Critical Approaches to the Film Sequel*. Ed. Jess-Cooke, Carolyn; Verevis, Constantine. SUNY Press, Albany, NY. (2010): 191-203
- Sabbaghi, Navid, and **Omid Sabbaghi.** "Sustainable Supply Chain Management." *Practical Sustainability: From Grounded Theory to Emerging Strategies*. Khalili, Nasrin R. Palgrave Macmillan, New York, NY. (2011): 101-119
- Schirmer, Barbara R.** and Cheri Williams. "Approaches to Reading Instruction." *Oxford Handbook of Deaf Studies, Language, and Education, Volume 1, Second Edition*. Marschark, Marc; Spencer, Patricia; Nathan, Peter. Oxford University Press, New York, NY. (2011): 115-129

## Scholarly Articles

- Anthony, Maureen,** and **Joanne Yastik.** "Nursing Students' Experiences with Incivility in Clinical Education." *Journal of Nursing Education*. 50.3 (2011): 140-144
- Baiardi, Janet M.,** Barbara L. Brush, and **Sharon Lapides.** "Common Issues, Different Approaches: Strategies for Community-Academic Partnership Development." *Nursing Inquiry*. 17.4 (2010): 289-296
- Britt-Smith, Laurie A.** "Txt Msgs 4 Afrca: Social Justice Communities in a Digital World." *Reflections: Writing, Service Learning, and Community Literacy*. 10.1Fall 2010: 172-194
- Burke-Schmidt, Constance A.** "HRT/ERT Best Practice Recommendations." *Clinician Reviews*. 20.12December 2010: 32-38
- Calley, Nancy G.,** and Lisa D Hawley. "Increasing Self-Empowerment Related to Depression Among Court-Involved Youth: The Moods Matter Project." *Michigan Journal of Counseling: Research, Theory, and Practice*. 37.2Winter 2010: 18-30
- Cavanagh, Gerald F., S.J.** "Markets Organize Our Lives." *Journal of Jesuit Business Education*. 1.1Summer 2010: 85-102
- Chiang, Wesley M., Theodore Freeland, Richard Kulbersh,** and Richard Kaczynski. "Effect of Gnathologic Positioner Wear on Maximum Intercuspation CR Disharmony." *RWISO Journal*. 2.1September 2010: 75-81
- Damas, Beth Ann, Michelle A. Wheeler, Josef S. Bringas,** and **Michael M. Hoen.** "Cytotoxicity Comparison of Mineral Trioxide Aggregates and EndoSequence Bioceramic Root Repair Materials." *Journal of Endodontics*. 37.3March 2011: 372-375
- Das, Shuvra, Leo Hanifin,** and Sean Newell. "A New Responsive Model for Educational Programs for Industry: The University of Detroit Mercy Advanced Electric Vehicle Graduate Certificate Program." *SAE International Journal of Passenger Cars- Electronic and Electrical Systems*. 3.2December 2010: 10-18
- David, Jeanne M.,** and **Patrick T. Wirtz.** "A Framework for Discussing Ethics in Principles of Accounting." *Journal of Business Case Studies*. 6.1January/February 2010: 83-88
- Eisenhauer, Joseph G.,** Doris Geide-Stevenson, and David L. Ferro. "Experimental Estimates of Taxpayer Ethics." *Review of Social Economy*. 69.1March 2011: 29-53
- Freeland, Dori, Theodore Freeland, Richard Kulbersh,** and Richard Kaczynski. "Comparison of Maxillary Cast Positions Mounted from a True Hinge Kinematic Face-Bow vs. an Arbitrary Face-Bow in Three Planes of Space." *RWISO Journal*. 2.1September 2010: 45-55
- Freeman, John.** "The UnNatural, or Who's your Daddy?: Tiger Woods, Nike, and Corporate Parenthood." *CTheory*. 5 April 2011 | [www.ctheory.net/articles.aspx?id=680](http://www.ctheory.net/articles.aspx?id=680)
- Geist, James,** and **Shin-Mey Rose Y. Geist.** "Oral Pathology Quiz #22. Static Bone Cavity." *Journal of the Michigan Dental Association*. 92.7July 2010: 42-6
- Goldman, Lee.** "Student Speech and the First Amendment: A Comprehensive Approach." *Florida Law Review*. 63.2April 2011: 395-430
- Goldman, Lee.,** "Post-Verdict Challenges to Racial Comments Made During Juror Deliberations." *Syracuse Law Review*. 61.1 (2010): 1-24
- Green-Deines, Amy.** "Detroit, The Rarified City." *The Plan*. 047December/January 2011: 98-111
- Haidar, Mahmoud, Utayba Mohamad, Nizar Al Holou,** and **Mark J. Paulik.** "Service-Oriented Architecture for Wireless Vehicular Communication." *Canadian Journal on Multimedia and Wireless Networks*. 1.4August 2010: 55-74

- Hill, R.C.,** J.E.R. Cury, M.H. de Queiroz, D.M. Tilbury, and S. Lafortune. "Multi-Level Hierarchical Interface-Based Supervisory Control." *Automatica*. 46.7 (2010): 1152-1164
- Huber II, John Thomas, and **Douglas A. MacDonald**. "An Investigation of the Relations Between Altruism, Empathy, and Spirituality." *Journal of Humanistic Psychology (Online First)*. 7 March 2011
- Hutchinson, Robert**. "Quantifying the Impact of Cost Accounting System Design on Manufacturing Performance: A Simulation Approach." *Advances in Management Accounting*. 18 (2010): 81-109
- Hutchinson, Robert**, and Kun Liao. "Zen Accounting: How Japanese Management Accounting Practice Supports Lean Management." *Management Accounting Quarterly*. 11.1 Fall 2009: 27-35
- Ibitayo, Adebimpe O., **Valmy Pangrazio-Kulbersh, Jeff Berger, and Burcu Bayirli**. "Dentoskeletal Effects of Functional Appliances vs Bimaxillary Surgery in Hyperdivergent Class II Patients." *Angle Orthodontist*. 81.2 (2011): 304-311
- Kim, Suk Hi, Junhua Jia, and Michael Whitty**. "The Northeast Asian Energy Situation and the North Korean Factor." *North Korean Review*. 7.1 Spring 2011: 78-86
- Kim, Suk Hi**. "Editor's Comments: The Third Wave of North Korean Collapse." *North Korean Review*. 6.2 (2010): 3-11
- Kosinski, Timothy F**. "CT Planning for Implants: Don't Let a Panoramic Fool You." *Inclusive*. 1.4 Fall 2010: 43-50
- Kosinski, Timothy F**. "Digital Implant Treatment Planning: Restoration of Maxillary Posterior Single Teeth." *Inclusive*. 1.3 Summer 2010: 27-34
- Kosinski, Timothy F**. "Utilizing Digital Treatment Planning and Guided Surgery in Conjunction with Narrow Body Implants." *Inclusive*. 2.1 Winter 2011: 43-50
- Koukal, D. R.** "The Dishonesty of "Cores Lite": The Battle for a Truly Common Core." *Conversations on Jesuit Higher Education*. 39.1 Spring 2011: 53-54
- Koukal, D. R.** "Torture." *International Journal of Applied Philosophy*. 23.2 (2010): 305-314
- Kruczala, Krzysztof, and Shulamith Schlick**. "Measuring Diffusion Coefficients of Nitroxide Radicals in Heterophasic Propylene-Ethylene Copolymers by Electron Spin Resonance Imaging." *Macromolecules*. 44.2 (2011): 325-333
- Kwasky, Andrea N., Barbara E. Harrison, and Ann L. Whall**. "Quality of Life and Dementia: An Integrated Review of Literature." *Alzheimer's Care Today*. 11.3 July-September 2010: 186-195
- Liao, Ying, Kun Liao, and **Robert Hutchinson**. "A Conceptual Framework for Prototyping Outsourcing in New Product Development: A Knowledge-Based View." *Journal of Manufacturing Technology Management*. 21.1 (2010): 122-138
- Mead, Nancy R., and **Daniel Shoemaker**. "Two Initiatives for Disseminating Software Assurance Knowledge." *CrossTalk: The Journal of Defence Software Engineering*. September/October 2010: 25-29
- Mead, Nancy R, **Daniel Shoemaker**, and Linda Laird. "Getting Secure Software Assurance Knowledge into Conventional Practice." *COMPSAC*. 18 July 2011
- Oueis, Hassan Sami**, Elizabeth Ralstrom, **Vinod Miriyala**, Gail E. Molinari, and Paul Casamassimo. "Alternatives for Hand Over Mouth Exercise After its Elimination From the Clinical Guidelines of the American Academy of Pediatric Dentistry." *Pediatric Dentistry*. 32.3 May/June 2010: 223-228
- Oueis, Hassan, James R. Geist**, Mai Uyen Tran, and James Stenger. "High-Flow Arteriovenous Malformations of the Mandible and the Maxilla: Report of 2 Cases." *Pediatric Dentistry*. 32.5 September/October 2010: 451-456
- Oueis, Hassan, Salwa Atwan**, Brynn Pajtas, and Paul S. Casamassimo. "Use of Anterior Veneered Stainless Steel Crowns by Pediatric Dentists." *Pediatric Dentistry*. 32.5 September/October 2010: 413-416
- Page, Robert, **Lawrence Zeff, and Mary Higby**. "Toyota's Undoing: A Case of Hyper-Response to Hyper-Conflict." *Business Research Yearbook*. 18.2 (2011)
- Patston, Philip, David Holmes, **Ahmad Maalagh-Fard**, Kang Ting, and Vincent B. Ziccardi. "Maximising the Potential of Part-Time Clinical Teachers." *Clinical Teacher*. 7.4 (2010): 247-250
- Peterson, Evan, and Gregory W. Ulferts**. "Government Control of Communications Technology." *International Business & Economics Research Journal*. 8.9 (2009): 19-23
- Pitera, Dan**. "Transparent Urbanism." *The Plan*. 047 December/January 2011: 131-135
- Resnick, Noah**, and Tadd Heidgerken. "Roosevelt Park: Grass Roots Initiatives." *The Plan*. 047 December/January 2011: 128-130

- Rombes, Nicholas.** "The Age of Happiness." *Oxford American*. 70 (2010): 93-94
- Sabbaghi, Omid.** "The Behavior of Green Exchange Traded Funds." *Managerial Finance*. 37.5 (2011): 426-441
- Schirmer, Barbara R.,** and Laura Schaffer. "Guided Reading Approach: Teaching Reading to Students Who are Deaf and Others Who Struggle." *Teaching Exceptional Children*. 42.5May/June 2010: 52-58
- Schirmer, Barbara R.,** and Laura Schaffer. "Implementation of the Guided Reading Approach with Elementary School Deaf Students." *American Annals of the Deaf*. 155.3 (2010): 377-385
- Shoemaker, Daniel,** Nancy R Mead, and **Jeffrey Inglasbe.** "Integrating the Master of Software Assurance Reference Curriculum into Model Curriculum and Guidelines for Graduate Degree Programs in Information Systems." *Technical NOTE, CMU/SEI-2011-TN-005*. February 2011
- Shoemaker, Daniel.** "Software Security Engineering Education." *International Journal of Secure Software Engineering*. 1.4October-December 2010  
<http://www.igi-global.com/ijssse>
- Staudenmaier, John M., S.J.** "Editor In Chief." *Technology and Culture: The International Quarterly of the Society for the History of Technology*. Staudenmaier, John M., S.J.. (2011)
- Ulferts, Gregory, Patrick Wirtz,** and **Evan Peterson.** "Strategic Human Resource Planning In Academia." *American Journal of Business Education*. 2.7October 2009: 1-9
- Weaver, Jonathan,** and **Nassif Rayess.** "Developing Entrepreneurially Minded Engineers by Incorporating Technical Entrepreneurship Case Studies." *The Journal of Engineering Entrepreneurship*. 2.1Winter 2011: 10-27  
[http://www.jeenonline.org/Vol2/Num1/JEEN\\_2\\_Paper2.pdf](http://www.jeenonline.org/Vol2/Num1/JEEN_2_Paper2.pdf)
- Wendorf, Craig A., Todd Lucas, E. Olcay Imamoglu, **Carol C. Weisfeld,** and Glenn E. Weisfeld. "Marital Satisfaction Across Three Cultures: Does the Number of Children Have an Impact After Accounting for Other Marital Demographics?." *Journal of Cross-Cultural Psychology*. 42.3April 2011: 340-354
- White, Mary L.,** Rosalind Peters, and Stephanie Schim Myers. "Spirituality and Spritual Self-Care: Expanding Self-Care Deficit Nursing Theory." *Nursing Science Quarterly*. 24.1 (2011): 45-56
- Wittig, Will.** "Filling the Void: Detroit Open Source." *The Plan*. 047December/January 2011: 122-127
- Zarkowski, Pamela,** and Christine Wallace. "Entry/Reentry, Allied, and Alternative Careers: An IWLC Working Group Report." *Journal of Dental Education*. 75.3Supplement/March 2011: S31-32
- Zeff, Lawrence E.,** and **Mary A. Higby.** "Team Effectiveness: The Turbulent Role of Environmental Turbulence." *Business Research Yearbook: Global Perspectives*. 17.2 (2010): 663-670

## Conference Precedings

- Aljeroudi, Yazan, **Mark Paulik,** **Mohan Krishnan,** and **Chaomin Luo.** "A Path Planning Algorithm for Lane-Following-Based Autonomous Mobile Robot Navigation." *IS&T/SPIE Electronic Imaging 2010*. San Jose, CA. 17-21 January 2010
- Alnounou, Yasser, **Mark Paulik,** **Mohan Krishnan,** Greg Hudas, and James Overholt. "Occupancy Grid Map Merging Using Feature Maps." *15th IASTED International Conference on Robotics and Applications (RA 2010)*. Cambridge, MA. 1-3 November 2010
- Barrios, Rita M.,** and Michael R. Lerhfeld. "iOS Mobile Device Forensics: Initial Analysis." *2011 ADFSL Conference on Digital Forensics, Security and Law*. Richmond, VA. 25-27 May 2011
- Barrios, Rita M.,** and **Michael R. Lerhfeld.** "Forensicating iOS Mobile Devices." *10th Annual Security Conference*. Las Vegas, NV. 4-6 May 2011
- Branch, Ben, and **Min Xu.** "Can Projection Information Shed Light on Post Bankruptcy Performance?." *Decision Sciences Institute Annual Meeting*. San Diego, CA. 20-23 November 2010
- Chen, Jun, Chaomin Luo, **Mohan Krishnan,** **Mark Paulik,** and Yipeng Tang. "An Enhanced Dynamic Delaunay Triangulation-Based Path Planning Algorithm for Autonomous Mobile Robot Navigation." *Proceedings of Intelligent Robots and Computer Vision XXVII: Algorithms and Techniques - S & T/SPIE Electronic Imaging Meeting*. San Jose, CA. 17-21 January 2010
- Dukhan, Nihad,** and **Mohamed Ali.** "Effect of Sample's Diameter on Flow Properties of Open-Cell Metal Foam." *ASME 2010 International Mechanical Engineering Congress & Exposition*. Vancouver, British Columbia, Canada. 12-18 November 2010

- Dukhan, Nihad, X Li, and N Rayess.** "Measurement of the Thermal Conductivity of Aluminum Foam-Polypropylene Interpenetrating Phase Composites." *Cellular Materials (CELLMAT2010) Conference*. Dresden, Germany. 27-29 October 2010
- Dukhan, Nihad,** and J Ratowski. "Convection Heat Transfer Analysis for Darcian Flow in Porous Media: A New Two-Dimensional Solution." *14th International Heat Transfer Conference*. Washington, DC. (2010)
- Dukhan, Nihad,** and C Minjeur. "Minimum Thickness for Open-Cell Metal Foam to Behave as a Porous Medium." *40th Fluid Dynamics Conference and Exhibit*. Chicago, Illinois. (2010)
- Dukhan, Nihad,** and K Patel. "Entrance and Exit Effects for Fluid Flow in Metal Foam." *Third International Conference on Porous Media and its Applications in Science, Engineering and Industry*. Montecatini, Italy. June 2010
- Dukhan, Nihad,** and J Ratowski. "Velocity Profile for Darcian Flow in Porous Media: A New Two-Dimensional Solution." *Third International Conference on Porous Media and its Applications in Science, Engineering and Industry*. Tuscany, Italy. (2010)
- Dukhan, Nihad,** and S Bodke. "An Improved PCM Heat Storage Technology Utilizing Metal Foam." *ITherm*. Las Vegas, Nevada. (2010)
- Dukhan, Nihad.** "A New Approach for Determining the Permeability of Cellular Metals." *7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics*. Antalya, Turkey. July 2010
- Graves, James, Isaac Miller, and Vincent Vuljaj.** "Biodiesel Glycerol Byproduct as a Carbon Source for Microorganisms in Undergraduate Research." *Michigan Branch of American Society for Microbiology*. Kalamazoo, MI. April 2010
- Hoback, Alan, and Scott Anderson.** "Link Between Transit Spending and Personal Income." *Proceedings of the 51st Transportation Research Forum*. Washington, DC. 11-13 March 2010
- Kleinke, Darrell.** "Capstone Lessons to Prepare Students for the Changing World of Corporate Innovation." *American Society for Engineering Education - North Central Conference*. Mt. Pleasant, MI. 2 April 2011
- Rayess, N, N Dukhan,** and A Adenwala. "Modeling of Tensile Properties of a Polymer-Metal Foam Structural Hybrid Material." *Cellular Materials (CELLMAT2010) Conference*. Dresden, Germany. (2010)
- Rayess, Nassif, Jonathan Weaver, and Darrell Kleinke.** "'The Odd Couple' of Engineering and Entrepreneurship: Playing at a University Near You." *Proceedings, ASEE 2010 North Central Sectional Conference*. Pittsburgh, PA. 26-27 March 2010
- Sabbaghi, Omid,** and Matt Lupton. "Orphan Equities: Profitable Investments?." *Academy of Finance*. Chicago, IL. (2011)
- Shoemaker, Daniel, Jeffrey Ingalsbe, Rita Barrios,** and Nancy R Mead. "Defining the Discipline of Secure Software Assurance: Initial Findings from the National Software Assurance Repository." *Hawaii International Conference on System Sciences*. Kauai, HI. January 2010.
- Weaver, Jonathan,** and Nassif Rayess. "Technical Entrepreneurship Case Studies for Incorporation into Undergraduate Classes." *NCIIA 14th Annual Conference*. San Francisco, CA. 25-27 March 2010

## Faculty Awards

- Daimi, Kevin.** "Recognition and Appreciation of Leadership, Service and Research Contributions to the Field of Network Security." *Outstanding Achievement Award*. The 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLFCOMP 10),
- Shoemaker, Daniel.** "National Software Assurance Repository and Curriculum Project." *Sponsored Research-Contract*. Information Assurance 1.6 million over two years,
- Shoemaker, Daniel,** and Jeffrey Ingalsbe. "Software Assurance Curriculum." *100,000 six month contract with CIC*. Information Assurance, research contract,
- Shoemaker, Daniel.** "Secure Software Education." *Speaker on a Panel*. SC World Congress, 2009 and 2010,
- Shoemaker, Daniel.** "Co-Chair." *Workforce Education and Training National Committee*. Department of Homeland Security-National Cybersecurity Division,

## Student Awards

**Bilbrey, Brittany, Brittany Snell, and Danielle Becigneul.** "PA 161: A Model for Serving the Community." *First Place Dental Hygiene Research Poster Competition.* University of Detroit Mercy School of Dentistry.

**Bohn, Allison.** "Song of Myself: For Walt." *2nd Prize, Dudley Randall Student Poetry Competition.* Department of English.

**Daimi, Kevin, and Nazar Elnazeer.** "FEDERATED IDENTITY Management." *UDM.*

**Doman, Elizabeth, Nicole Messina, Samia Oumeddour, and Megan Stricklin.** "Periodontal Disease Linked to Preterm Birth." *First Place tie, Dental Hygiene Table Clinic Competition, University of Detroit Mercy School of Dentistry.*

**Garshott, Danielle.** "Symposium Organizer: It's All In the Water." *ACS, Certificate of Appreciation.* American Chemical Society, Division of Environmental Chemistry.

**Hanner, Kathrine, Sarah Barbuscak, Lindsey Respondek, and Rebecca Cathey.** "Infant Oral Health Education in Michigan Dental Hygiene Programs." *Second Place, Dental Hygiene Research Poster Competition, University of Detroit Mercy School of Dentistry.*

**Ibarra, Maria.** "Socia-lie-ogical." *1st Prize Dudley Randall Student Poetry Competition.* English Department.

**Ibarra, Maria.** "Phenomenal Woman." *Phenomenal Women Award.* Student Life.

**Osayande, Deonte.** "Grattitude." *3rd Prize, Dudley Randall Student Poetry Competition.* Department of English.

**Saad, Nour.** "Voluntary Active Euthanasia of the Terminally Ill." *1st place, Physician Assistant Education Association (PAEA)/ Journal of the American Academy of Physician Assistants (JAPPA) Student Writing Competition.*

**Wells, Crystal, Angela Sample, Lindsay Luce, and Sachna Pillai.** "Chew on This: State of the Art Tooth Regeneration." *First Place tie, Dental Hygiene Table Clinic Competition, University of Detroit Mercy School of Dentistry.*



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