## Office of Research Development



2012 Annual Report

## Table of Contents

## Featured Stories...

4-5 Autism Collaborative Center
6-7 B. Side \& Digital Inclusion
8-9 Mars Simulations
10-11 Asian American Breast Health
12-13 Vegetable Oil-Based Polymers

## Awards, Information \& Statistics...

2 Who We Are
14-15 Technology Transfer Summary
16-17 Award Statistics
18-19 Proposal \& Award Summary
20-23 Internal Awards
24-32 External Awards

Contributing Writers:
Lynn Monson, Jeff Mortimer and Amy Whitesall
Photography by:
Mike Andaloro and Randy Marscharka

Design and Project Management by:
Melissa Jasperse
Front Cover: Professor Bob Winning and students
Back Cover: Professor Anne Casper and student

## Who We Are

Eastern Michigan University is a public, comprehensive university offering programs in the arts, sciences, and professions. EMU prepares students with the intellectual skills and practical experiences to succeed in their lives and careers and be worthy and effective citizens.

## Office of Research Development

James Carroll III, Associate Provost for
Research and Administration and
Dean of the Graduate School (Interim)
Caryn Charter, Director (Interim)
Alethea Helbig, Faculty Associate,
Publications and Editing
Harriet Lindsay, Faculty Associate,
Undergraduate Research

Philip Rufe, Faculty Associate, Technology
Transfer
Susan Campbell, Project Officer
Donelle Goerlitz, Project Officer
Rich Magyar, Systems Administrator
Marjorie Dargo, Senior Secretary


We are pleased to present the $\mathrm{FY}_{2012}$ Office of Research Development Annual Report. This report provides a summary of the funded scholarly and creative efforts undertaken by EMU faculty, staff, and students during this past year.

You will notice that this is an expanded report. It features some of the great research and sponsored activity happening at EMU. These articles clearly illustrate how EMU is helping solve real-world problems-whether it is by providing much-needed services to those with autism and their families, teaching area youth valuable job skills, helping NASA protect the assets it sends into space to explore Mars by increasing our understanding of the planet's atmosphere, helping Asian-American women protect themselves from breast cancer through screening and early detection, or making industrial coatings more sustainable. These sponsored efforts illustrate how EMU makes a significant impact on local, national, and international communities.

EMU's sponsored activities contribute directly to EMU's ability to fulfill its mission of education, research, and service. In $\mathrm{FY}_{2012}$, EMU submitted i99 proposals to funding agencies (up 8\% from $\mathrm{FY}_{2011}$ ), earning 102 awards that totaled over $\$ 10.4 \mathrm{M}$. The overall award numbers declined slightly this past year, reflecting the reality of smaller awards due to the tightening of federal budgets. There were ${ }_{52}$ funded activities from the College of Arts and Sciences, by far the most of any college. The number of funded activities from the College of Health and Human Services nearly doubled in both numbers and total dollars, moving the College to the second-highest at EMU in both categories. Examples of all the activities are found in the listings of internal and external awards in this report, as well as in the many stories published on the Office of Research Development (ORD) webpage.

It has been a pleasure working with you as you seek support for your scholarly and creative activities. We thank the ORD staff, as well as the University Research and Sabbatical Leave Committee and the Undergraduate Research Advisory Committee for all of their hard work this past year. We are indebted to the many private and public organizations that have sponsored so many research efforts at EMU!

Thank you for your interest in this report, and we look forward to continuing to work with you in the near future.

Best wishes,


James J. Carroll, III Associate Provost and
Associate Vice President for Research
\& Interim Dean of the Graduate School


Caryn Charter Interim Director Office of Research Development


# Autism Collaborative Center 'Telehealth' model making information more accessible 

## College of Education

Families from all across Michigan will soon have access to a high-tech, statewide network of resources for treating autism thanks to new programs being implemented by Eastern Michigan University's Autism Collaborative Center.

A \$500,000 state grant received in 2012 through the Michigan Department of Community Health will help the center use communication technology to connect families to healthcare providers and the constantly evolving knowledge about autism treatment.

The initial grant allowed the center to purchase and install hardware and software for live video and audio links between the EMU center and anyone with Internet access. Video cameras allow meetings and treatment sessions to be broadcast or recorded for use by families, healthcare providers and educators.

The goal of this so-called "Telehealth" model is to greatly increase the efficiency of treatment and intervention options. Autism patients, who are often children, require intensive and individualized treatment plans that often cause severe stress for the entire family.

Jon Margerum-Leys, associate dean of the EMU College of Education and Office of Academic Servic-
es, said the emphasis on video communication has several applications, both for the treatment of specific patients and for autism education. For example, an educational meeting for the parents of children with autism, perhaps explaining new insurance regulations that took effect in October 2012, can be broadcast on the Internet so that people around the state would not need to drive to the meeting location to listen or ask questions.

Similarly, if an Upper Peninsula mother brings her son to the EMU autism center for a therapy session, other family members and the child's other healthcare providers in the U.P. could observe the session from afar. It not only reduces travel time and expense, but it also reduces the information burden on the accompanying parent who previously would have had to remember and explain the many developments to other members of the treatment team who weren't present.

A third element is that recorded therapy sessions or healthcare workshops can be educational teaching tools for EMU students from healthcare and education fields who no longer have to be present at the original events.

Margerum-Leys and Pamela Lemerand, director of the ACC, empha-
size the importance of organizing resources to reduce the burden for families dealing with autism.
"What we're poised to do is to help be a clearinghouse and help people work together," MargerumLeys said. "What we want to be in the middle of, is determining which way is forward and working collaboratively with other folks in the community. ... It's knowing who the other players are, and really thinking about how best to work together."

Lemerand said the EMU center, which opened in 2009 in the former Fletcher Elementary School on the edge of campus, is unique in its emphasis on family.
"The disorder of autism affects every single member of the family. Oftentimes, the best intervention you can give toward a child is really to support the parents in their parenting role and their understanding of autism and autism intervention.
... The life of parenting a child with autism is an exhausting experience. It is very stressful to marriages, it is stressful to siblings, and so we try to support that kind of wraparound intervention."

The funding the center receives will continue to help provide essential services for the families affected by autism.

# B. Side and Digital Inclusion Programs giving local youth entrepreneurship, technological skills 

## Office of Academic Service Learning

Now in its fifth year, the Business Side of Youth program - known more commonly as The B. Side - continues to thrive as it develops youth entrepreneurship in and around the Ypsilanti community.

A series of foundation and government grants in 2012 have helped strengthen two main initiatives led by staff from Eastern Michigan University's Office of Academic ServiceLearning.

The core program is B. Side Basics, a ro-week, 40-hour course that meets on Saturdays. Youth ages 13 to 21 learn about business, business plans and job readiness skills. The program helps youth generate business ideas and projects at the same time it emphasizes self-sufficiency, initiative and mentoring.

A second program, called Digital Inclusion, uses EMU students from various disciplines to train youth to refurbish outdated computers and install wireless networks. The old computers, otherwise destined for landfills, have been provided by several area businesses and enterprises, including EMU, the Toyota Tech Center, Pittsfield Township, Washtenaw County and the Domino Farms business complex.

Digital Inclusion has partnered with several community organizations, including Wireless Ypsi and the Ypsilanti Housing Commission, to
provide low-cost computers and free wireless service to low-income communities that would otherwise not have access to the Internet. The refurbished computers, complete with the latest software, are sold for minimal cost to local non-profits and individuals, thus generating revenue to help the program continue.

Jessica "Decky" Alexander, director of the ASL office, said the success of B. Side and Digital Inclusion is directly related to their integration into the Ypsilanti community and collaboration with community organizations. "We have been determined to not only build the program but sustain the program, and make it relevant to the community and the university," she said.

Jack Bidlack, director of B. Side, said the programs had a strong year in 2012 thanks to three main areas of funding.

A \$15,757 grant from the James A. and Faith Knight Foundation supported an initiative called "Digital Inclusion in the Community - Southside Ypsilanti Wireless Project." Wireless repeaters were installed in two lowincome communities in Ypsilanti so that residents there gained free access to the Internet.

The B. Side's contract to help youth through the federal Workforce Investment Act (WIA) was extended twice during the year, in June and Septem-
ber. Administered by the Washtenaw County MiWorks! office, these extensions added three months to programming for WIA youth for a total of $\$ 55,744$.

The first extension included $\$ 5,000$ for computers for Washtenaw County's Community Action Agency; fifty 50 computers were provided to low-income or disabled county residents. Another $\$ 2,500$ went for training youth to use video equipment and editing software; they created Public Service Announcements on topics such as weatherization, MichiganWorks! and veterans services.

Digital Inclusion partnered with Community Action Network to provide a course on computer hardware and software trouble-shooting for 15 youth from Ann Arbor and Ypsilanti on a project funded by the Ann Arbor Area Community Foundation Youth Council.

Alexander said the self-sustaining programs come full circle by giving youth job skills while meeting community needs. "We wanted to be able to provide a new skill set to the young people we are working with," she said. "But we also realized that the essence of digital inclusion is to bridge the digital divide. People need access and once they have access, maybe they'll want a computer."



# Mars Simulations <br> Professor investigating Martian atmosphere for MAVEN mission 

## College of Arts \& Sciences

O$n$ the first day of high school physics class, Dave Pawlowski's teacher gave his students a bunch of paper arrows, a list of instructions and a simple assignment: Follow the instructions and figure out what it all means.

The exercise taught them something about vectors, he says, but it also opened his eyes to the process of discovery.
"I wasn't told what the point was, but at the end it made sense," says Pawlowski, an Eastern Michigan University physics professor who now uses the arrow exercise with his intro-level students. "With very limited instructions and very limited (explanation of) 'This is the point,' you go, 'Wow, this makes sense because I went through the process of doing it.' "

Physics, Pawlowski soon decided, was the coolest thing on Earth.

In May, Pawlowski and co-investigators at the University of Michigan were awarded a three-year, $\$ 345,418$ NASA grant and a $\$ 21,960$ University of Michigan grant to support the upcoming Mars Atmosphere and Volatile EvolutioN mission (MAVEN). MAVEN is scheduled to launch in late 2013 and will explore the upper atmosphere of Mars.

NASA hopes to better under-
stand what happened to the planet's once abundant liquid water, and what role events on the sun - solar flares, solar storms and solar winds may have played.

Pawlowski and his colleagues are developing computer models to better simulate conditions in the Martian upper atmosphere, paying particular attention to those solar events and the way they change the atmosphere's density. Density affects the speed of spacecraft traveling through the atmosphere, so the mission depends on good simulations to help get satellites where they need to go.
"It's challenging," he says. "The science part is new and it sort of exciting because you're looking at solar flares - and I haven't even mentioned dust storms, but we're looking at dust storms and how they affect things."

Because our understanding of the Martian upper atmosphere is about 40 years behind our knowledge about Earth's, Pawlowski and his colleagues are working on a complex puzzle with a whole lot of missing pieces. Sometimes there's no data, and sometimes the data that is available isn't quite what they need. Often the computer model and the data don't match up, and then they must go searching for answers and
try to figure out why.
"I've always liked to try to understand the way things worked. When I was little I'd take apart the VCR things like that - like a little kid does, right?," he says, making you wonder what lies ahead for this father of two when his kids get old enough to wield a screwdriver.

In two short years at Eastern, Pawlowski has earned a Provost's New Faculty Award (2010) and a Faculty Research Fellowship (20II).

When the NASA project came up, it seemed a good fit for his computational physics expertise, and he knew Steve Bougher, one of his advisors from his time at Michigan, was already working on a computer model.
"I like to think that what I'm doing has some sort of tangible implications for society, and its hard to make that connection, even in my field, and as you get farther away from earth it gets harder to make the case that its important for reasons other than just scientific inquiry.
"The way I look at the Mars project is we're sending a lot of spacecraft there, investing a lot of money and a lot of time. If I'm doing something to help protect those investments, that feeds my scientific interests while keeping in line with my moral sense of obligation."

# Asian-American Breast Health <br> Increasing awareness for an underserved, uninsured population 

## College of Health \& Human Services

When she was in her early 30s, Dr. Tsu-Yin Wu found
a large lump in her breast while doing her monthly self-examination. A Professor of Nursing at Eastern as well as a clinician, she knew immediately what her next step should be.
"I needed a mammogram, but nobody wanted to take my word and schedule me for one," she recalls. "I was told, 'you're Asian and you'll never get breast cancer at this age.' It took me a few weeks but I finally talked to a nurse practitioner who helped me get an appointment."

Luckily, the lump was benign, but the experience was transformative nonetheless.
"I felt like if I'm somewhat educated and a nurse with a medical background and I can speak English fairly fluently and I still cannot..." her voice trails off. She thought of all the women she encountered at the health fairs run by the Healthy Asian Americans Project, which is based at Eastern
and which she's directed since 2007 - women who weren't bilingual, who didn't have health insurance, who didn't know they should be screened for illnesses like cancer and diabetes even if they were feeling well.
"Something needed to be done to educate these women," she says. "Once they know what's out there, they can speak on behalf of themselves." With the help of a grant from the Susan G. Komen Breast Cancer FoundationAffiliate, she a project to launched increase breast health awareness and access to detection among the underserved and uninsured Asian-American population in Washtenaw

County. Now in its third year it's been so effective that the Komen Foundation's national office recently funded a similar project, based on the local model, for underserved areas in China and Taiwan.
"I'm really passionate about my people," says Dr. Wu, who emigrated from Taiwan 20 years
ago. "I see it as my mission to become the advocate for this population. Despite the people who think Asians all have good jobs and health insurance, our study shows more than one-third of the Asians who come to our health fairs don't have any access to health care. We see a lot of problems."

Preventing problems is one of the primary goals of any firstrate medical professional, as another recently funded program illustrates. A grant from the W.K. Kellogg Foundation will support Dr. Wu's work on a project to promote well-being and mental health among immigrant Asian-American children and adolescents by involving parents and significant family members, addressing cultural and economic stressors specific to those families, empowering communities, and fostering collaborations between school systems and clinical agencies.
"This is not primarily a research university," she says, "but I can still carry out what my vision is in terms of research, in terms of advocacy, at Eastern. Everyone tries very hard to provide the space and the personnel support that I need. I feel I've found a home here."


# CAUTION EYE PROTECTION REQUIRED 



# Vegetable Oil-Based Polymers Research to assist in moving away from petroleum dependency 

## College of Technology

Polymers are pervasive in our society, and for good reasons: the applications of these versatile materials seem almost endless and, until recently, their costs have been low. But as we become increasingly aware of how their price is going up, both in terms of their environmental impact and the growing scarcity of the petroleum products from which they're made, finding new ways to manufacture them has become critical.

The pursuit of this has been Dr. Vijay Mannari's passion since his days as a doctoral candidate. "The research topic I chose was converting vegetable oils into derivatives that could be used in coatings," says Mannari, associate professor of polymers and coatings technology in the School of Engineering Technology. "I've been in this for a long time just because I like the chemistry and it has the potential to produce so many different types of materials."

He also likes the potential to reduce environmental damage and lower costs by using renewable resources, and he was lured to Eastern because it's one of a handful of universities in the country that has both
undergraduate and graduate programs in polymers and coating technology, and it's the home of the Coatings Research Institute. "I find a very good blend of research and teaching at Eastern," he says, "and I'm fortunate to be able to pursue both here."

His latest pursuit, funded by a grant from the U.S. Department of Agriculture, is to design and develop a sustainable technology platform, based on vegetable oils, which can be used to create a whole range of environmentally friendly coatings and related products that will perform as well as those currently in use.

The coatings developed are designed to protect metal, wood, plastic and building materials, and are used on industrial products in the automobile, aerospace, transportation, packaging and building industries.
"Once modified, these vegetable oil derivatives can provide alternative building blocks for replacing petro-based materials," says Mannari, "not only reducing the carbon footprint of products but also providing opportunities to create new businesses and new markets for vegetable oils."

His years in industry nurtured
a practical perspective that is invaluable in his work, and reflected in two grants his research team recently received from the Michigan Initiative for Innovation and Entrepreneurship.

The grants will help fund the commercialization of several of his inventions through partnerships, like that established with Plascore, Inc., a Zeeland company that uses coatings extensively in manufacturing honeycomb core and composite structures and seeks to embrace "green" technologies by offering safer, more environmentally responsible products to its customers.
"If we continue doing things as we are now, we will be out of petroleum and will have no other resource to substitute for it," says Mannari.
"For us to develop sustainably, we have to find a resource that is renewable. The development of 'green' coating materials and technologies is more important than ever before, and the Coatings Research Institute has the unique capability to help the state and the country, through the innovation and commercialization of its inhouse research."

## TECHNOLOGY Transfer

Technology Transfer, also known as Technology Commercialization, is the transfer of University-developed innovations into the marketplace for the benefit of the community, general public, and University. Innovation and its dissemination is the first and foremost goal.

Revenue generation, through licensing royalties and option agreements, perpetuates the research and technology transfer process. The following is a summary of technology-transfer activity at Eastern Michigan University during FY 2012.


## FY 2012 <br> Invention <br> Disclosures

EMU1102.00 Toothbrushing:
On-Mirror Reminder for
Where to Brush Better
Andrew Ross, Mathematics
EMU1103.00 Patient Self-
Care System for Eye Drops after Cataract Surgery
Andrew Ross, Mathematics
EMU1201.00 Self-Powered Oscillating Automotive Vent
Markanthony Hiser, School of
Engineering Technology student Jason Cach, School of Engineering Technology student

## FY 2012 U.S. Patent Applications Filed

Aqueous Polyurethane/ polyurethane-urea dispersions (PUD) with high bio-based content.
Viijay Mannari, Coatings Research Institute

Chromate-free Organicinorganic hybrid pretreatment for corrosion resistance of aluminum alloys Viijay Mannari, Coatings Research Institute

## FY 2012 Issued U.S. Utility Patents

Controlling Pigment Location in Self-Stratifying Coatings
Jamil Baghdachi, Coatings Research Institute
Heidi Perez-Hernandez, Polymers and Coatings student
Haifeng He, Polymers and Coatings student
Cynthia Templeman, Toyota

History of Awards by Sponsor Type fy 2003-2012

Federal Govt. $\square$ State Govt. $\square$ Foundations $\square$ Business \& Industry $\square$ Local Govt. \& Other


Federal Sponsorship by Agency FY 2012

## Awards by Activity Type fy 2012



## Success Rate by Sponsor Type FY 2011/12



# Proposal \& Award 

Proposal \& Award Summary by Unit FY 2011/12

|  | FISCAL YEAR 2012 |  |  |  | FISCAL YEAR 2011 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Proposals |  | Awards |  | Proposals |  | Awards |
| College of Arts \& Sciences | \# | value | \# | value | \# | value | \# | value |
| African-American Studies | 0 | \$0 | 0 | \$0 | 1 | \$169,936 | 0 | \$0 |
| Art | 1 | \$35,000 | 0 | \$0 | 1 | \$119,410 | 1 | \$1,000 |
| Biology | 10 | \$6,542,815 | 6 | \$249,413 | 13 | \$5,740,383 | 6 | \$686,521 |
| Chemistry | 8 | \$5,222,559 | 1 | \$65,000 | 8 | \$1,329,710 | 3 | \$177,779 |
| Communication, Media, \& Theatre Arts | 13 | \$1,383,044 | 6 | \$87,217 | 9 | \$217,305 | 5 | \$119,167 |
| Computer Science | 1 | \$408,551 | 1 | \$32,181 | 3 | \$544,907 | 1 | \$32,181 |
| Economics | 1 | \$44,032 | 0 | \$0 | 0 | \$0 | 0 | \$0 |
| English Lang. \& Literature | 11 | \$746,659 | 4 | \$250,180 | 6 | \$494,983 | 3 | \$267,000 |
| Geography \& Geology | 16 | \$9,716,759 | 5 | \$417,036 | 10 | \$5,949,174 | 5 | \$1,552,267 |
| History \& Philosophy | 5 | \$7,980,709 | 2 | \$822,263 | 3 | \$992,147 | 2 | \$577,763 |
| Institute for Geospatial Research \& Education | 10 | \$8,413,023 | 3 | \$120,356 | 10 | \$8,475,128 | 7 | \$1,077,915 |
| Institute for Language Information \& Technology | 2 | \$232,367 | 1 | \$151,455 | 5 | \$1,079,902 | 2 | \$252,013 |
| Mathematics | 2 | \$262,781 | 0 | \$0 | 1 | \$13,517 | 1 | \$13,517 |
| Music \& Dance | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 |
| Office of the Dean, Arts \& Sciences | 0 | \$0 | 0 | \$0 | 0 | \$0 | 1 | \$486,000 |
| Physics \& Astronomy | 18 | \$5,559,007 | 6 | \$155,077 | 16 | \$7,172,855 | 11 | \$1,074,567 |
| Political Science | 0 |  | 1 | \$2,434 | 3 | \$202,930 | 1 | \$500 |
| Psychology | 9 | \$6,194,559 | 4 | \$122,340 | 13 | \$3,960,062 | 2 | \$135,563 |
| Sociology, Anthropology \& Criminology | 12 | \$10,985,957 | 5 | \$869,315 | 6 | \$1,290,684 | 3 | \$835,652 |
| Gerontology Program | 1 | \$63,103 | 1 | \$63,103 | 2 | \$74,103 | 1 | \$63,103 |
| Women's and Gender Studies Program | 0 | \$0 | 0 | \$0 | 0 | \$0 | 1 | \$5,500 |
| World Languages | 9 | \$1,718,217 | 6 | \$353,815 | 10 | \$3,085,040 | 7 | \$551,171 |
| TOTAL | 129 | \$65,509,142 | 52 | \$3,761,185 | 120 | \$40,912,176 | 63 | \$7,909,179 |
| College of Business | \# | value | \# | value | \# | value | \# | value |
| Accounting | 1 | \$18,564 | 1 | \$18,564 | 1 | \$18,201 | 2 | \$28,201 |
| Finance/Computer Information Systems | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 |
| Management | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 |
| Marketing | 1 | \$50,000 | 0 | \$0 | 0 | \$0 | 0 | \$0 |
| Office of the Dean, Business | 2 | \$602,000 | 2 | \$602,000 | 1 | \$500,000 | 1 | \$500,000 |
| TOTAL | 4 | \$670,564 | 3 | \$620,564 | 2 | \$518,201 | 3 | \$528,201 |
| College of Education | \# | value | \# | value | \# | value | \# | value |
| Leadership \& Counseling | 2 | \$7,068,443 | 1 | \$572,263 | 1 | \$572,263 | 1 | \$572,263 |
| Office of the Dean, Education | 4 | \$2,218,849 | 1 | \$500,000 | 0 | \$0 | 0 | \$0 |
| Special Education | 4 | \$2,537,237 | 0 | \$0 | 2 | \$1,254,908 | 0 | \$0 |
| Teacher Education | 15 | \$11,377,251 | 5 | \$1,400,668 | 9 | \$4,582,220 | 7 | \$2,017,438 |
| TOTAL | 25 | \$23,201,780 | 7 | \$2,472,931 | 12 | \$6,409,391 | 8 | \$2,589,701 |
| College of Health \& Human Services | \# | value | \# | value | \# | value | \# | value |
| School of Health Promotion \& Human Performance | 1 | \$26,626 | 1 | \$26,626 | 1 | \$81,532 | 1 | \$81,532 |
| School of Health Sciences | 5 | \$5,148,749 | 2 | \$61,132 | 5 | \$463,026 | 1 | \$24,988 |
| School of Nursing | 5 | \$355,472 | 4 | \$257,618 | 4 | \$262,037 | 2 | \$199,086 |
| Office of the Dean, HHS | 10 | \$10,597,615 | 5 | \$1,215,023 | 8 | \$2,861,316 | 4 | \$1,183,730 |
| School of Social Work | 4 | \$3,253,845 | 3 | \$1,312,484 | 5 | \$1,665,240 | 0 | \$0 |
| TOTAL | 25 | \$19,382,307 | 15 | \$2,872,883 | 23 | \$5,333,151 | 8 | \$1,489,336 |
| College of Technology | \# | value | \# | value | \# | value | \# | value |
| School of Engineering Technology | 12 | \$6,013,597 | 4 | \$94,120 | 17 | \$6,829,070 | 4 | \$105,200 |
| Coatings Research Institute | 4 | \$1,507,079 | 4 | \$74,120 | 4 | \$820,661 | 2 | \$75,800 |
| Center for Product Research and Development | 0 | \$0 | 0 | \$0 | 1 | \$1,020 | 1 | \$1,020 |
| School of Technology Studies | 24 | \$9,816,708 | 9 | \$572,768 | 21 | \$5,768,549 | 8 | \$581,000 |
| Center for Regional \& National Security | 2 | \$142,689 | 2 | \$119,439 | 3 | \$474,500 | 3 | \$115,879 |
| Textiles Res. \& Training Institute | 1 | \$599,622 | 0 | \$0 | 1 | \$38,600 | 1 | \$38,600 |
| Office of the Dean, Technology | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 |
| TOTAL | 36 | \$15,830,305 | 13 | \$666,888 | 47 | \$13,932,400 | 19 | \$917,499 |
| Extended Programs | \# | value | \# | value | \# | value | \# | value |
| Extended Programs \& Educational Outreach |  |  |  |  | 0 | \$0 | 0 | \$0 |
| Center for Organizational Risk Reduction | 1 | \$35,000 | 1 | \$35,000 | 0 | \$0 | 1 | \$40,000 |
| TOTAL | 1 | \$35,000 | 1 | \$35,000 | 0 | \$0 | 1 | \$40,000 |

Proposal \& Award Summary by Unit FY 2011/12 contined

|  | FISCAL YEAR 2012 |  |  |  | FISCAL YEAR 2011 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Proposals |  | Awards |  | Proposals |  | Awards |
| Office of the Provost | \# | value | \# | value | \# | value | \# | value |
| Academic Programming \& Student Success Holman Learning Center | 1 | \$160,000 | 2 | \$268,000 | 1 | \$900,000 | 2 | \$231,880 |
| Academic Success Partnerships | 3 | \$274,716 | 3 | \$274,716 |  |  |  |  |
| Bruce T. Halle Library | 0 | \$0 | 0 | \$0 | 1 | \$24,746 | 0 | \$0 |
| Charter Schools | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 |
| Graduate School | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 |
| Honors College | 1 | \$213,180 | 1 | \$213,180 | 1 | \$220,000 | 1 | \$220,000 |
| Inst. for the Study of Children, Families \& Comm. | 31 | \$16,420,556 | 15 | \$3,146,483 | 24 | \$5,240,138 | 10 | \$2,243,099 |
| Upward Bound | 1 | \$398,293 | 2 | \$404,007 |  | \$409,582 | 2 | \$395,264 |
| Nonprofit Leadership Alliance | 1 | \$2,434 | 1 | \$2,434 | 0 | \$0 | 0 | \$0 |
| Office of Academic Service Learning | 11 | \$1,355,065 | 3 | \$55,744 | 8 | \$242,143 | 4 | \$79,167 |
| Office of Research Development | 1 | \$16,600 | 1 | \$16,600 | 2 | \$64,200 | 2 | \$64,200 |
| Provost's Office | 3 | \$3,688,474 | 0 | \$0 | 0 | \$0 | 1 | \$500,000 |
| Undergraduate Studies \& Curriculum |  |  |  |  | 0 | \$0 | 0 | \$0 |
| TOTAL | 49 | \$22,094,602 | 23 | \$3,838,448 | 40 | \$6,200,809 | 20 | \$3,501,730 |
| Business \& Finance | \# | value | \# | value | \# | value | \# | value |
| TOTAL | 0 |  | 23 |  |  |  |  |  |
| Office of the President | \# | value | \# | value | \# | value | \# | value |
| TOTAL | 0 |  |  |  |  |  |  |  |
| Student Affairs \& Enrollment Management | \# | value | \# | value | \# | value | \# | value |
| Children's Institute Counseling \& Psychological Services | 1 | \$15,000 | 1 | \$15,000 |  |  |  | \$170,000 |
| TOTAL | 1 | \$15,000 | 1 | \$15,000 |  |  | 1 | \$170,000 |
| University Marketing \& Communications | \# | value | \# | value | \# | value | \# | value |
| University Marketing | 0 | \$0 | 0 | \$0 |  | \$0 | 0 | \$0 |
| WEMU Radio | 1 | \$184,279 | , | \$184,279 |  | \$188,448 | 1 | \$188,488 |
| TOTAL | 1 | \$184,279 | 1 | \$184,279 | 1 | \$188,448 | 1 | \$185,774 |
| TOTAL | 199 | $\begin{aligned} & \text { SUBMITTED } \\ & \$ 70,899,573 \end{aligned}$ | 102 | AWARDED $\mathbf{\$ 1 0 , 4 2 3 , 3 3 4}$ | 184 | SUBMITTED | 104 | AWARDED $\mathbf{\$ 1 2 , 5 3 6 , 5 7 6}$ |



# INTERNAL AwARDS 2012 

## Ronald W. Collins EMU-FT Distinguished Faculty Awards <br> William John Koolage

(History and Philosophy).
Teaching I

## Paul Ramsey

(Teacher Education).
Research I

## Weidian Shen

(Physics and Astronomy).
Research II

Melanie Schuessler
(Communication, Media and
Theatre Arts).
Creative Activity
Amy Sacksteder
(Art).
Creative Activity
Donna "Kay" Woodiel
(Health Promotion and Human
Performance).
Service to the Community
6TH ANNUAL
Michigan
Distinguished Professor of the Year Award

Daniel Brickner<br>(Accounting and Finance)

Pamela Lemerand (Health
Sciences). "The Development of an Interdisciplinary Autism Spectrum Disorder Training Program for Parents and Professionals"

Shel Levine (Health Promotion and Human Performance). "Exercise Electrocardiography"

Lois Mahoney (Accounting and Finance). "An Examination of the Relationship between Corporate Social Responsibility and Firm Strategic Alliances: A Canadian Investigation"

Frances Elaine Martin (Political Science). "Gender and the Judiciary"

Steven J. Ramold (History and Philosophy). "After Appomattox: How the Civil War Really Ended"

Martin B. Shichtman (English Language and Literature). "KnightTime in America: Masculinity, Chivalry, and the Golden Age of Fraternal Organizations"

Martha Tanicala (Nursing). "Nursing Workforce Development through Community Service at Imperial Hospital Limited and Imperial College of Nursing in Chittagong, Bangladesh"

## Christine Smith Tanner

(Communication, Media and Theatre Arts). "The Phantom of the Opera: Dramaturgy, Directing, and Arts Integration Project"

Jianhua Wang (Engineering
Technology). "Developing Engineers for the Global Economy"

Marjorie Ziefert (Social Work). "Defining Human Needs as Human Rights in Social-Work Practice: Cuba as a Case Example"

## Faculty Research Fellowships

## Ernest Behringer (Physics

 and Astronomy). "Construction, Calibration, and Use of an Infrared Laser Tweezers for Experiments in Cell Motility"Anne Casper (Biology). "Validation of the 'DNA Hairpin' Model for Formation of Breaks at Common Fragile Sites"

Kathleen P. Chamberlain
(History and Philosophy).
"Cooperation and Conflict: The Bosque Redondo Reservation
Experiment, 1864-1868"
Bradley Ensor (Sociology, Anthropology and Criminology). "EMU Archaeology Field School Dissemination Project"

Steven N. Francoeur (Biology).
"An International Scientific Collaboration Investigating 'topdown' vs. 'bottom-up' Effects in Marine Food Webs"

Sam Fullerton (Marketing). "A Longitudinal Assessment of Patient Proactivity: A Replication of a 1991 National Study"

Carla Harryman (English
Language and Literature). "Look
Again and Portrait of M : Completion of a Creative Prose Manuscript for Publication Submission"

Flora Hoodin (Psychology).
"Feasibility of Assessing
Neurocognitive and Psychological
Functioning in Patients Undergoing Blood and Marrow Transplantation"

Maria C. Milletti (Chemistry).
"Molecular Modeling in Support of the Synthesis of an Alkaloid Natural Product"

David Pawlowski (Physics and Astronomy). "Toward a Better Understanding of Where the Water Went at Mars"

Jennifer Rice (Economics)."An Analysis of Physician Practice Style: The Determinants of Variation in Total Cost of Care"

Thomas Schmitt (Psychology). "A Monte Carlo Simulation Evaluating Ordinal Data Estimators in Confirmatory Factor Analysis"

Philip C. Schmitz (History and Philosophy). "English Translations (with Commentary) of Phoenician and Punic Inscriptions for the Writings from the Ancient World (WAW) Series"

## Joanna Vecchiarelli Scott

(Political Science)."A New
Perspective on Hannah Arendt: Writing on Politics in Cold War America"

David Wozniak (Accounting and Finance). "Neuroimaging and Hormonal Analyses of Differences in Competitive Choices"

Tsu-Yin Wu (Nursing)."Increasing Colorectal Cancer Screening:
Developing and Testing a Culturally Tailored Intervention in Asian Americans"

## Provost's New Faculty Research Awards

Amanda Allen (English Language and Literature). "The Sweetness Debate: Neglected Female Junior Novels (1942-1967) and the Gendering of Young Adult Fiction"

Laurie C. Blondy (Nursing). "Identifying Constructs of the Synthesis Process"

Minnie Bluhm (Health Sciences).
"Why They Do It: Oncologists'
Rationales for Administering Chemotherapy to Dying Patients"

Nancy Villa Bryk (Geography and Geology). "Acknowledging Women's Contributions in Sites of Famous Men"

## Sherry M. Bumpus

(Nursing)."Evaluation of Bridging the Discharge Gap Effectively (BRIDGE)"

Ramona Caponegro (English Language and Literature)."The Prisoner and the Grande Dame: Leo Frank, Anne Carol Moore, and the Children's Library that Connected Their Stories"

Stephanie Casey (Mathematics). "STEM-Achievement Improvement in Mathematics among Michigan English Language Learners: AIMELL"

Ali Eydgahi (Engineering Technology)."Design of an Intelligent Autonomous Control and Navigation System for Simulation of Unmanned Surface Vehicles"

Todd Grote (Geography and Geology). "Reconstructing Prehistoric Floodplain Environments in the Allegheny-Upper Ohio River Basin, Pennsylvania"

Raul A. Leon (Leadership and Counseling). "Study Abroad: Engaging Males and Students of Color"

> Abbey Marterella (Health Sciences). "Theorizing Lifestyle: Exploring Health and Wellness Needs of Adults with Serious Mental Illness"

Kennedy Saldanha (Social
Work). "Marginal Homelessness Experiences of Youth in Two Alternative Education Programs: A Pilot Study"

Hyoung-Jin Shin (Sociology, Anthropology and Criminology). "Residential Choice of Immigrant Groups in Newark City, 8880 "

## Zuzana Tomaš (World

 Languages). "STEM-Achievement Improvement in Mathematics among Michigan English Language Learners: AIM-ELL"
## Undergradduate Research Stimulus Program Awards

Ruth Ann Armitage (Chemistry). Mentoring John Hopkins. "Direct Analysis in Real Time Mass Spectrometry: Developing a Tool for Rapid Analysis of Ancient Food Residues"

Ernest Behringer (Physics and Astronomy.).Mentoring Nathaniel Franklin. "Infrared Laser Tweezers for Manipulating Microscopic Particles and Cells"

Timothy Brewer (Chemistry). Mentoring Michael Zielinski. "Nanoparticles' Size and Shape Influence on Luminescent Properties"

John Carbone (Health Sciences). Mentoring Erica Mouch, Leonita Tomaj, and Alyssa Walz. "The Effects of High Fructose Corn Syrup Intake on Basic Physiologic Measures"

Anne Casper (Biology). Mentoring Kayleigh A. Watson. "Examination of the Function of the Sgss Protein at Fragile Site Two in Yeast DNA" and "Exploring the Role of the Sgsi Protein at a Fragile Site in Yeast DNA"

Elizabeth Däumer (English Language and Literature). Mentoring David Boeving. "The Gestural Language of T. S. Eliot's Poetry"

Natalie Dove (Psychology). Mentoring Randal Brown. "An Investigation of the Effectiveness of STI-Preventative Marketing Campaigns"

Cory Emal (Chemistry). Mentoring Bryan Harmon. "Investigation of Novel Inhibitors of Plasminogen Activator Inhibitor-1 (PAL-I)"

## Katherine Greenwald

(Biology). Mentoring Danielle Hulvey. "Genetic Markers for the Identification of Unisexual Ambystoma Salamanders"

Verónica Grondona (English Language and Literature). Mentoring Zachary Smith. "Digitizing, Archiving, and Annotating Chorote Linguistic Data"

Jeff Guthrie (Chemistry).
Mentoring Joshua Hunt. "Selection of Molecular Probes for Streptavidin Using Capillary Electrophoresis"

Heather Holmes (Chemistry). Mentoring Mary Beth Kalvaitis. "Characteristics of Packed-Capillary Sorbent Traps for Derivatization and Preconcentration of Short-Chain Fatty Acids"

Heather Holmes (Chemistry). Mentoring Lois Vasquez. "Testing Efficacy of a Constructed Wetland to Filter Common Water Pollutants through Ion Chromatography"

Alissa Huth-Bocks (Psychology).
Mentoring Ashley London.
"Changes in Mother-Infant
Attachment Behavior in Relation to Changes in Family Circumstance"

Heather Janisse (Psychology). Mentoring Nicole Richards. "The Relationship between Parental Care and Communication and Sexual Behaviors and Attitudes in Emerging Adults"

Kristin Judd (Biology). Mentoring Josh Goldberger. "Does Invasion by Phragmites australis Impact the Abundance and Diversity of Methane-Producing Microbes in Wetland Soils?"

Thomas Kovacs (Geography and Geology). Mentoring Steven Korn. "Effects of the Saharan Aerosol Layer on Tropical Waves"

Gerald Lawver (Technology Studies). Mentoring Jeffrey Haller. "Cyber Defense System"

```
Aaron Liepman (Biology).
Mentoring Torey Arnold.
"Characterizing Mannan Synthases from Plants that Synthesize Mannans with Different Structures"
```

Steven LoDuca (Geography and Geology). Mentoring Kara Marsac. "Investigation of Problematic Early Paleozoic Macrofossils using Scanning Electron Microscopy and Stable Carbon Isotope Analysis"

John McCurdy (History and Philosophy). Mentoring Aaron Luedtke. "The Forgotten Colony: Quebec and the American Revolution"

Maria C. Milletti (Chemistry). Mentoring Alyssa Winkler. "Stereoselective Synthesis of Acyl Pyrrolidines"

David Pawlowski (Physics and Astronomy). Mentoring Douglas
Spry. "Investigating the Predictability of the Solar Wind"
David Pawlowski (Physics and Astronomy). Mentoring Andrew Samuels. "Toward a 27-Day Prediction of Ionospheric and Thermospheric Space Weather"

Andrew Ross (Mathematics).
Mentoring Patrick Davis. "Modeling the Spread of a Wheat Pathogen in the United States"

Jamie Scaglione (Chemistry).
Mentoring Jannelle Shaw.
"Verrucosispora: Antibiotic-
Producing Soil Bacteria from the
Detroit River"

## Melanie Schuessler

(Communication, Media and Theatre Arts). Mentoring Haley Cavanaugh. "Costume Design for Pygmalion (Michigan Shakespeare Festival)"

Lynne M. Shetron-Rama<br>(Health Sciences). Mentoring Michelle Hatto. "Investigating Essential Metabolic Pathways of Bacillus Anthracis"

Edward Sidlow (Political Science). Mentoring Neil Weinberg. "Presidential Success, Failure, and Greatness"

Marshall Thomsen (Physics and Astronomy). Mentoring Michael Moreno. "A Study of Quantum XY Chains"

Michael L. Williams (Nursing). Mentoring Mark J. Miller. "Prostate Cancer, Gay Men, and Their Partners: A Phenomenological Investigation"

Gregg Wilmes (Chemistry). Mentoring Benjamin C. Sharp. "Exploring the Use of Copolymers as an Effective Drug-Delivery System"

Margrit Zinggeler (World Languages). Mentoring Elaine Gurich. "Innovative Approaches to Teaching German Grammar and Understanding Musical Inspiration with the Brothers Grimm Online Corpora COSMAS"

# EXTERNAL AWARDS ${ }_{2012}^{2017}$ 

Office of the Provost
Academic
Programming and Student
Services
Lynette Findley, and Janice Jones, The Holman Success Center
Michigan Department of Career
Development KCP State GEAR-UP
Program
Michigan Dept. of Labor and
Economic Growth-Career
\$138,000
Lynette Findley, and
Mark Jackson and Mary
Zdrojkowski, The Holman Success Center
Getting on the Right Track-Trackers
Program (Michigan 4-S Program)
Michigan Dept. of Labor and
Economic Growth
\$130,000

## Academic Service-Learning

Jessica Alexander,
Communication, Media and Theatre Arts
The B. Side Workforce Investment Act
Washtenaw County Children's
Services Department
\$55,744

## Academic Success Partnerships

## Lynette Findley

EMU Project to Create an
Alternative Path to Post-Secondary
Studies for Urban Students in Detroit
McGregor Fund, D etroit,
Michigan
\$160,000
UPrep Opening Doors
New Urban Learning
\$66,135
Eastern Michigan University Single-
Parent Residential-Support Program
Endicott College
\$48,58I

## Honors College

## Rebecca Sipe, and Heather

Neff, English Language and
Literature
McNair Postbaccalaureate
Achievement Program
U.S. Dept. of Education
\$213,180

## INSTITUTE FOR THE STUDY OF Child ren, FAMILIES AND Communities (ISCFC)

David Clifford, School of Health Sciences; and Claudia Petrescu, Political Science; and Colleen Croxall, School of Health Sciences<br>Process Evaluation of the Jackson<br>County Health Improvement<br>Organization's Coordinating Council Allegiance Health (W.A. Foote Memorial Hospital)<br>\$1,000

## Mark Jackson, Upward Bound

Upward Bound-MDE-Summer Food Program
Michigan Dept. of Education \$5,714

Mark Jackson, Upward Bound, and Russell Olwell Upward Bound U.S. Dept. of Education \$398,293

Lynn Malinoff and Russell Olwell<br>${ }^{21 s t}$ Century Community Learning<br>Centers, Bright Futures at Middle<br>and High Schools<br>Michigan Dept. of Education<br>\$674,725

Lynn Malinoff, Russell
Olwell, and Wendy Burke, Teacher Education
2Ist Century Community Learning Centers, Bright Futures at Middle and High Schools
Michigan Dept. of Education
\$727,479
Bright Futures Meets Japan
Japan Foundation
\$5,000

## Russell Olwell, History and

 PhilosophyConnecting Hamilton Crossing:
Developing Family Self-Sufficiency
Programs for Subsidized-Housing Residents
Kresge Foundation, Troy, MI
\$250,000
Russell Olwell, and Ethan
Lowenstein and Rebecca
Martusewicz, Teacher
Education
The Southeast Michigan Stewardship Coalition
Great Lakes Fishery Trust
\$145,000
SEMIS Small Contract Fund:
Professional Development Training
and Consultation Regarding
Curriculum Development/Mapping and Evaluation
Boggs Educational Center,
Detroit
\$6,68o
Honey Creek Community School \$2,000

Russell Olwell, History and Philosophy, and Claudia Petrescu, Political Science
NLA Comprehensive Internship Integration Study
Nonprofit Leadership Alliance (formerly American Humanics)
\$2,434

## Russell Olwell, Wendy Burke, Teacher Education, and Diane Parfitt, Leadership and Counseling

Connecting Students to the Community: EMU GEAR-UP
Partnership to Promote College
Readiness and Success
U.S. Dept. of Education
\$572,263

## Russell Olwell, and V. Kay Hodges, Psychology

Michigan Level of Functioning
Project
Michigan Dept. of Community Health
\$103,328
Peggy Wiencek and Russell Olwell; and Tana Bridge, School of Social Work
Outside In Evaluation Proposal Starr Commonwealth, Albion, MI \$252,567

NonProfit
LeADERSHIP
Alliance
(formerly American Humanics)

Claudia Petrescu, Political Science, and Russell Olwell, ISCFC and History and Philosophy
NLA Comprehensive Internship
Integration Study
Nonprofit Leadership Alliance
\$2,434
Office of
Research DEVElOPMENT

Philip Rufe and Vijaykumar Mannari, School of

Engineering Technology, and Caryn Charter
Polyurethane Dispersion Based on
Soybean Oil (Soy Pods) for High Bio-
Based Content Coatings
University of Michigan
\$16,6oo

# EXTERNAL <br> Awards 2011 2021 

College of
Arts and
Sciences
Biology

Katherine Greenwald
Biodiversity Research in Ohio and Michigan: The Blue-Spotted
Salamander
Ohio State University
\$10,250

## Allen Kurta

A Netting Survey for Bats near Lake Odessa, Ionia County, Michigan
Golder Associates, Inc.
\$21,962
A Netting Survey for Bats at a Proposed Wind Farm near Holland, Allegan County, Michigan
Western EcoSystems Technology, Inc. (WEST)
\$15,328
Pre-Construction Survey of Bats at Cross Winds Energy Park, Huron and Tuscola Counties, Michigan Consumers Energy Co. \$150,000

## Ulrich Reinhardt-Segawa

Field Comparison of Eel-Ladder-Style and Traditional Sea Lamprey Traps Great Lakes Fishery Commission \$51,873

Chemistry

Harriet Lindsay

Development of a Catalytic,
Asymmetric Aza-Cope
Rearrangement-Mannich
Cyclization
American Chemical Society
\$65,000

## Communication, <br> Media and <br> Theatre Arts

## Jessica Alexander, Academic <br> Service-Learning

The B. Side Workforce Investment Act
Washtenaw County Children's
Services Department
\$55,744

## Wendy Kivi

EMU Takes Electrical Safety
Instruction to Local Safety Education
Programs
DTE Energy Foundation
\$20,000
Dennis Patrick
"Let's Make It Better Now" Speech
Competition
Michigan Campus Compact
\$3,494

## Dennis Patrick and Jessica

Alexander, Academic
Service-Learning
Creating Safe Schools for LGBT
Students
Community Foundation for
Southeastern Michigan
\$7,979

## Computer <br> Science

## Benjamin Keller

The University of Michigan George
M. O'Brien Renal Core Center

University of Michigan (NIH) \$32,18I

## English <br> LANGUAGE AND <br> Literature

## Cathy Fleischer

Ideas for a Book Series for NCTE
National Council of Teachers of
English
\$12,000

## Heather Neff, and Rebecca <br> Sipe, Honors College <br> McNair Postbaccalaureate <br> Achievement Program <br> U.S. Dept. of Education <br> \$213,180 <br> William Tucker <br> EMU National Writing Project-- <br> Literacy Design Collaborative <br> National Writing Project <br> $\$ 25,000$

## GEOGRAPHY AND Geology

Theodore Ligibel

Graduate Internship for the Michigan Department of Transportation Michigan Dept. of Transportation \$14,382

Internship at the Michigan Historical Center's Historical Marker Program Michigan Dept. of Natural Resources
\$28,380
Cooperative Study Agreement for the Development of a Cultural Landscape Inventory and Report for the I813 Battles of the River Raisin and Aftermath
Monroe County Historical Society \$2,000

## Sandra Rutherford

The Great Lakes Climate Change
Science and Education Systemic
Network (GLCCSESN)
National Science Foundation
\$237,296
Collaborative Project Track i:
Collaborations for Building Michigan
Geology Talent
National Science Foundation
\$134,978

## Gerontology

## Shelly Weaverdyck and Elizabeth Schuster

EMU Alzheimer's Education and Research Program
Michigan Dept. of Community
Health
\$63,103

## History and <br> Philosophy

## Russell Olwell, ISCFC

Connecting Hamilton Crossing:
Developing Family Self-Sufficiency
Programs for Subsidized-Housing
Residents
Kresge Foundation, Troy, MI
\$250,000
Russell Olwell, ISCFC; and Wendy Burke, Teacher Education; and
Diane Parfitt, Leadership and
Counseling
Connecting Students to the
Community: EMU GEAR-UP
Partnership to Promote College
Readiness and Success
U.S. Dept. of Education
\$572,263

# External Awards 2012 

## Physics and Astronomy

## James Carroll

Summer Experiences for Middle
School Students
Gordian Charter Solutions
$\$ 5,000$

## David Pawlowski

Coupled MGCM-MTGCM Mars
Thermosphere Simulations and
Resulting Data Products in Support of the MAVEN Mission
University of Michigan
\$21,960

Understanding the Time-Dependent Response of the Martian Upper Atmosphere to Solar Flares and Dust Storms
National Aeronautics and Space
Administration
\$19,,177
James Sheerin
Explore Mars
Michigan Space Grant Consortium \$5,000

## Michigan Space Grant Operating <br> Support

Michigan Space Grant Consortium \$1,500

Psychology
V. Kay Hodges and Russell Olwell, History and Philosophy and ISCFC
Michigan Level of Functioning Project Michigan Dept. of Community Health
\$103,328

## Steven Huprich

Evaluating the Clinical Utility of Three Models of Personality Disorder
Diagnosis
American Psychoanalytic
Association
\$12,000

## Alissa Huth-Bocks and Sarah Ahlfs-Dunn

Impacting of Material Trauma
on Infant Social Emotional
Development: The Critical Role of
Disrupted Maternal Representations
American Psychoanalytic
Association
\$3,000

Disrupted Maternal Representations:
Prenatal to Postnatal Stability in
Relation to Maternal Interpersonal
Trauma
International Psychoanalytic
Association
\$4,012

## Political Science

Claudia Petrescu, and Russell Olwell, ISCFC and History and Philosophy
NLA Comprehensive Internship Integration Study
Nonprofit Leadership Alliance
\$2,434

## Sociology, ANTHROPOLOGY and Criminology

## Kristine Ajrouch

Observing Census Enumeration of Non-English Speaking Households in the zoio U.S. Census
U.S. Census Bureau
\$15,900

Aging Muslim Families: A Needs Assessment
Institute for Social Policy and Understanding
\$9,982
Mansoor Moaddel
Cross-National Analysis of Islamic Fundamentalism
Office of Naval Research
\$843,433

[^0]
## World <br> LANGUAGES

Hitomi Oketani
Effectiveness of Japanese-English
Dual Language Immersion Programs in the U.S.-Phase I: Case StudyJapanese Language Curriculum and Its Outcomes
Japan Foundation
\$2,000
To Be A Better Reader from Age Zero Japan Business Society of Detroit Foundation
\$2,000
Michigan Japanese Bilingual
Education Foundation Student
Teacher Agreement
Michigan Japanese Bilingual
Education Foundation
\$12,900

## Alexander Popko

Training Content-Area Teachers to
Teach English
U.S. Dept. of Education
\$283,613
Motoko Tabuse
The Japanese Dinner Show 2012
Japan Business Society of Detroit Foundation
\$1,500

## Rosemary Weston and Hitomi Oketani

Charter School Implementation Consultation Support
Michigan Japanese Bilingual Education Foundation \$51,802

## College of <br> Business

Office of the
Dean

## Richard King

Small Business and Technology
Development Center, Region 9 Host
Grand Valley State University
\$602,000

## Accounting and

Finance

## David Wozniak

Collaborative Research:
Neuroimaging and Hormonal
Analyses of Gender and
Interindividual Differences in
Competitive Choices
National Science Foundation \$I8,564
College of
EdUcATION

## Office of the Dean

Jann Joseph, Jon<br>Margerum Leys, and Shawn Quilter<br>Autism Collaborative Center: A Multidisciplinary Telehealth Model to Serve Children with Autism and Their Families<br>State of Michigan<br>$\$ 500,000$

## LEADERSHIP AND Counseling

Diane Parfitt; and Wendy Burke, Teacher Education; and Russell Olwell, History and Philosophy and ISCFC
Connecting Students to the Community: EMU GEAR-UP Partnership to Promote College Readiness and Success
U.S. Dept. of Education \$572,263

## Teacher Education

## Wendy Burke; and Lynn Malinoff, ISCFC; and Russell Olwell, ISCFC and

## History and Philosophy

2Ist Century Community Learning Centers, Bright Futures at Middle and High Schools Michigan Dept. of Education \$674,725
Wendy Burke; and Diane
Parfitt, Leadership and
Counseling; and Russell
Olwell, History and
Philosophy and ISCFC
Connecting Students to the
Community: EMU GEAR-UP
Partnership to Promote College
Readiness and Success
U.S. Dept. of Education
$\$ 572,263$

Wendy Burke; and Diane Parfitt, Leadership and Counseling; and Russell Olwell, History and Philosophy and ISCFC
Connecting Students to the Community: EMU GEAR-UP Partnership to Promote College Readiness and Success
U.S. Dept. of Education $\$ 572,263$

# EXTERNAL <br> AwARDS${ }_{2011}^{2012}$ 

Ethan Lowenstein and Rebecca Martusewicz, and Russell Olwell, ISCFCand History and Philosophy
The Southeast Michigan Stewardship Coalition Great Lakes Fishery Trust $\$_{\text {I45,000 }}$

Ethan Lowenstein and Rebecca Martusewicz, and Russell Olwell, ISCFCand History and Philosophy
SEMIS Small Contract Fund: Professional Development Training and Consultation Regarding Curriculum Development/Mapping and Evaluation
Boggs Educational Center, Detroit
\$6,680
Honey Creek Community School
\$2,000

## College of Health and Human Services

Office of the DeAn
$\underset{\text { Soltis }}{\text { Joan Abbey and Sarah }}$
Development Activities for
Connection
Guidance Center-Virtual Center for Excellence \$75,000

School-Community Health Alliance
of Michigan Technical-Assistance
Contract
School-Community Health
Alliance of Michigan
\$45,898
Crystal Mills, and Mark
Ragg, School of Social Work
University Collaboration to Support
System-Wide Implementation of
Best-Promising and Evidence-Based
Practices in Community Mental
Health
Detroit/Wayne County
Community Mental Health Agency
\$920,000

## Crystal Mills

Evaluating the Development and Advanced CompetencyBased Training Model for IMH

## Professionals

Detroit/Wayne County
Community Mental Health
Agency
\$8,104

## Barbara Scheffer

UM:NIH Michigan Bridges to
Doctorate
University of Michigan \$166,02I

## School <br> of Health <br> Promotion and Human Performance

## Kathleen Conley

UM:NIH—Stroke Health and Risk
Education
University of Michigan
\$26,626

## School of Health Sciences

Colleen Croxall; and David
Clifford, School of Health
Sciences, and ISCFC; and
Claudia Petrescu, ISCFC
Process Evaluation of the Jackson
County Health Improvement
Organization’s Coordinating
Council
Allegiance Health (W.A. Foote Memorial Hospital)
\$I,000

## Alice Jo Rainville

UMISS:NFSMI Effectiveness of In-
Classroom Breakfast Programs
University of Southern
Mississippi
\$60,132

## School of <br> Nursing

Virginia Lan
EMU Nurse Faculty Loan Program Health Resources and Services
Administration
\$12,794

## Tsu-Yin Wu

Increasing Access and Reducing
Barriers to Breast Health and
Cancer Screening for Underserved
Minority Women
Susan G. Komen Breast Cancer
Foundation-Lansing
\$60,272
Take Care of Yourself and Help Others: Breast Health and Breast-
Cancer Screening of China and Taiwan
Susan G. Komen Breast Cancer Foundation
\$134,552
Empowering Immigrant Asian
Americans: Community
Participatory Approach
Kellogg Foundation, W.K.
\$50,000

## School of Social Work

Tana Bridge; and Russell Olwell, History and<br>Philosophy and ISCFC; and Peggy Wiencek, ISCFC<br>Outside In Evaluation Proposal<br>Starr Commonwealth, Albion, MI<br>\$252,567

Jennifer Kellman-Fritz
Washtenaw County Juvenile Court
Washtenaw County Government
\$139,917
Mark Ragg, and Crystal Mills, Office of the Dean
University Collaboration to Support
System-Wide Implementation of
Best-Promising and Evidence-Based
Practices in Community Mental Health
Detroit/Wayne County
Community Mental Health
Agency
\$920,000
College of
Technology
School of
Engineering
Technology

Jamil Baghdachi, Coatings<br>Research Institute<br>Cure Rate Studies of Selected<br>Automotive Topcoats<br>BASF<br>\$44,924

Automotive Crater and Crater
Resolution
BASF
\$12,596

> Vijaykumar Mannari, Coatings Research Institute, and Philip Rufe and Caryn Charter, Office of Research Development

Polyurethane Dispersion Based on
Soybean Oil (Soy Pods) for High Bio-
Based Content Coatings
University of Michigan
\$16,6oo

## Jianhua Wang and Behrooz <br> Lahidji <br> Issues of Quality in European <br> Automotive Supply Chain: The <br> Case of Vehicle Interior Parts <br> Daimay North America, Inc. <br> \$20,000

## SCHOOL OF <br> Technology Studies

## John Dugger III

Project Lead the Way (PLTW)Welch
James A. Welch Foundation \$18,600

## John Dugger III and Paul Kuwik <br> Project Lead the Way (PLTW) <br> Affiliate for Michigan <br> Dart Foundation <br> \$140,000

## John Dugger III and Paul Kuwik <br> Project Lead the Way-Michigan <br> Project Management Institute <br> Educational Foundation <br> \$15,000

# External Awards 2012 

## Maurice Henderson

Michigan Business Professionals of America (BPA)
Michigan Dept. of Education \$75,000

Gerald "Skip" Lawver, Center for Regional and National Security
River Rouge High School—Digital Inclusion Program
River Rouge School District \$21,000

Gerald Lawver, Center for Regional and National Security
The Dreams to Reality Information Assurance Capacity Building Dept. of Defense \$98,439

David Wait
Michigan Skills USA
Michigan Dept. of Education
\$75,000
Michigan Family, Career, and
Community Leaders of America (FCCLA)
Michigan Dept. of Education
\$54,729
Michigan DECA
Michigan Dept. of Education
$\$ 75,000$

EXTENDED
Programs and Educational

## Outreach

Center for
Organizational Risk Reduction

Barbara Hopkins, and Arlene Cook
CET 20II-20I2: Trenching and Excavating Qualified Person
Training
Michigan Dept. of Labor and
Economic Growth
\$35,000

## Student

Affairs and
Enrollment
Management

## Children's Institute

Christine Aris<br>Great Start Readiness Program Washtenaw Intermediate School District, Michigan Dept. of Education<br>\$179,928

## Counseling Services

Kathryn Walz

Social Norms Collaborative
Prevention Network (DOE) \$15,000

## University

Marketing and
Communications

## WEMU Radio

Mary Motherwell
WEMU Community Service Grant Corporation for Public Broadcasting
\$184,279


Office of Research Development
Starkweather Hall
Phone: 734.487.3090
Fax: 734.481.0650
www.ord.emich.edu

See the web version of this report at www.ord.emich.edu.
Office of Research Development Annual Report 2012 is a publication of Eastern Michigan University, Ypsilanti, Michigan 48197.


[^0]:    Michigan Space Grant Fellowships
    Michigan Space Grant Consortium
    \$2,500

