



MICHIGAN STATE UNIVERSITY **PARTNERS**

WINTER 2013



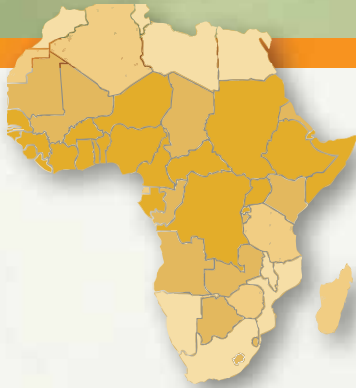
MSU Joins **The MasterCard Foundation Scholars Program**

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Kellogg's Historic
Manor House

Gates Foundation to
Improve Farming in Africa

GE Foundation
Supports S.T.E.M.



Michigan State University is optimistic about the future of Africa.

Our urban planners and demographers show Africa to possess a young, vibrant, sophisticated and increasingly urban population. Our information and communication technology specialists note that more than 500 million

Africans now own cell phones, a transformative level of digital connectivity. Our political scientists have charted the steady spread of democratic institutions and the deepening of respect for transparency and civic participation. Our agricultural scientists, climate scientists and development specialists

note a new atmosphere of confidence and collaboration as African leaders cooperate with neighboring countries, build new region-wide institutions, and plot a course of pan-African development that embraces the continent. And everywhere in Africa it is now recognized that private capital and local entrepreneurship have a central role in fostering and sustaining development. Michigan State University has cultivated the types of partnerships over the last 50 years that allow us to participate, analyze and contribute to this unique historical moment in Africa.

Among many other Africa-related initiatives, MSU is currently engaged in an ambitious education initiative, efforts to improve sustainable farming methods, and research on important health issues.



MSU and The MasterCard Foundation Partner on \$500 Million Initiative for African Scholars

With 50-plus years of engagement in Africa, Michigan State University will partner with The MasterCard Foundation on its \$500 million education initiative, The MasterCard Foundation Scholars Program, to provide talented, yet economically disadvantaged youth – especially those from Africa – with access to high-quality education.

MSU is the only institution in the Midwest to join the program, which is part of a global network of institutions. During the nine-year program, the university will receive \$45 million in funding from the foundation to support 100 undergraduates and 85 master's degree students. MSU welcomed the first cohort of five graduate and two undergraduate students for the 2012-13 academic year.

"Michigan State and The MasterCard Foundation both recognize that Africa is approaching an important inflection point," said MSU President Lou Anna K. Simon. "Seven African

countries are among the world's 10 fastest-growing economies, and the continent is the world's youngest demographically. That offers remarkable potential for innovation, and The Scholars Program will add leverage by building Africa's educational capacity."

Simon observed that the region still lags behind the world in secondary and higher education completion rates, and in order to sustain the continent's rapid growth, it's essential that its young people have the skills needed to participate in a competitive global economy.

The MasterCard Foundation Scholars Program offers The Scholars a comprehensive package of financial, academic and social support, as well as access to networks to make successful transitions to further education or the workforce in Africa, said Reeta Roy, president and CEO of The MasterCard Foundation. Scholars at MSU will build experiences, values and competencies

that are critical to success in the global economy, enabling them to give back to their communities and home countries.

“I want to work in the public health sector because there are some loopholes and gaps that need to be filled,” said Barbara Kotei, a MasterCard Foundation Scholar at MSU. “The ideas that I bring to the table, the education, the perseverance and the drive might help people see these gaps.”

Kotei, from Ghana, is an Honors College student majoring in biochemistry and hopes to use her education to improve Ghana’s public health system.

“An education does more than liberate people from poverty; it is the foundation of social and economic progress,” said Roy, who announced the program at a United Nations Special Session in September. “The MasterCard Foundation Scholars Program is a network of extraordinary educational institutions, nongovernmental organizations and young people. Together, they will contribute to the emergence of a more equitable, dynamic and prosperous Africa.”

Partners currently involved in The MasterCard Foundation Scholars Program include: American University of Beirut

– Faculty of Health Sciences; Arizona State University; Ashesi University; Duke University; EARTH University; MSU; Stanford University; University of California-Berkeley; and Wellesley College. This global network of institutions was selected for their shared values, academic excellence,

nurturing environment and programs relevant to growth sectors in Africa, Roy said. The Program also includes a partnership with African Leadership Academy to develop an African-based careers network for Scholars to access internships and jobs across the continent.

Partner Institutions Gather at MSU

In October 2012 the partner institutions joined The MasterCard Foundation for a three-day conference on the MSU campus. With all institutions represented, partners had the opportunity to share experiences, discuss program coordination, and begin developing a network-wide framework for success of The Scholars Program as it continues to grow.

MSU will employ a network coordinator to organize annual conferences for The Scholars. In addition, MSU will support the creation of The MasterCard Foundation Scholars and Alumni network, connecting students across the program and building a community of next-generation leaders who are committed to service.

With 2,500 African alumni and involvement in projects in at least 32 African nations during the last 50 years, MSU will provide strong support to The MasterCard Foundation Scholars and all African students, Simon said. The university has 24 formal partnerships with organizations and institutions in Africa. In 1960, MSU established an African Studies Center, which now provides instruction in more than a dozen African languages.

The MasterCard Foundation advances microfinance and youth learning to promote financial inclusion and prosperity. Through collaboration with committed partners in 49 countries, the foundation is helping people living in poverty to access opportunities to learn and prosper. An independent, private foundation based in Toronto, Canada, it was established through the generosity of MasterCard Worldwide at the time of the company’s initial public offering in 2006.

Helping African Nations Improve Sustainable Farming Methods

Michigan State University researchers will use a \$7.8 million grant from the Bill & Melinda Gates Foundation to help eight African nations improve their sustainable farming methods.

The grant, from the Gates Foundation Global Development Program, will be used to help guide policymaking efforts to intensify farming methods that meet agricultural needs while improving environmental quality in Kenya, Malawi, Mali, Nigeria, Burkina Faso, Zambia, Ethiopia and Tanzania.

Programs like this are paramount to Africa, as demonstrated by more than \$2.5 billion in annual spending by African governments on agricultural intensification, said Thomas Jayne, project co-director and MSU agricultural, food and resource economics faculty member.

“All of the partners have made a long-term commitment to help this region’s programs reach their full potential,” he said. “MSU has longstanding expertise in this field, and our commitment to institution building was a major reason as to why the Gates Foundation put its trust in MSU for this grant.”

During the next four years, the MSU team will work with 10 African universities, institutes and government ministries to promote effective government strategies that help African farmers become

more productive and food secure. The team also will build the capacity of national policy institutes to guide and support agriculture ministries and eventually accept and manage international grants.

Along with the international partnerships, Jayne will collaborate with fellow MSU researchers from the agricultural, food and resource economics department, including Melinda Heisey, Lenis Liverpool-Tasie, Niama Dembele, Isaac Minde, David Mather and Duncan Boughton. Together, the team will focus on three key crops – maize, sorghum and rice – and seek to improve seed development, fertilization and crop rotation to increase yields in a sustainable manner.

The grant builds upon MSU’s longstanding commitment to this region and stands as a tribute to the legacy of the MSU researchers who pioneered efforts such as these, Jayne added. In 2008, MSU used a \$4 million Gates Foundation grant to analyze the region’s agricultural marketing and trade systems to provide guidance to governments in the region on strategies to raise agricultural productivity and create more efficient, sustainable markets for small farmers.

“By guiding investments and developing policies, we’re hoping to create benefits that go beyond the direct recipients,” Jayne said. “The ripple effect could provide insights that feed more broadly into improving the policy processes in other countries in the region.”

Uncovering How Cerebral Malaria Damages the Brain



Michael Potchen, associate professor in the Department of Radiology.

Building on a quarter century of work in Malawi, a Michigan State University researcher is traveling to neighboring Zambia to perform MRI scans on children newly diagnosed with cerebral malaria in hopes of unlocking how it damages the brain.

Michael Potchen, an associate professor in the Department of Radiology, has been awarded a three-year, \$200,000 grant from the Dana Foundation, a private philanthropic organization supporting brain research through grants and public

education. He is seeking to validate the findings of the Malawi MRI Research Team, which he leads with Terrie Taylor of MSU's College of Osteopathic Medicine.

Cerebral malaria affects more than three million children annually, primarily in sub-Saharan African nations such as Zambia and Malawi, Potchen said. Although drugs can quickly clear the malaria-causing parasite from children, up to 25 percent of those infected will die and almost one-third of survivors suffer long-term neurological problems, including epilepsy and behavioral problems.

"Even with millions of children being affected, we do not know how malaria damages the brain throughout the course of illness, especially in its earliest stages when therapeutic interventions might be most effective," he said. "While we have discovered very unique findings in Malawi during autopsies of children and using an MRI, those results cannot fully be verified using the Malawi MRI, which has a lower field strength and is therefore somewhat limited."

Using an MRI at the Cancer Disease Hospital in Zambia that is four times stronger than the machine used in Malawi, Potchen

and his team will seek to validate initial evidence about how the disease damages the brain and produces epilepsy, behavioral disorders and severe cognitive and motor disabilities.

They will scan children, specifically looking at brain hemorrhaging, ischemia (lack of blood) in certain areas of the brain, whether the blood/brain barrier is intact and the severity of cerebral swelling.

"If confirmed, the findings will change the clinical care of cerebral malaria," said Potchen, who spends about four months each year in Africa. "This could lead to significant new approaches to prevent the disease or minimize its destructive effects in the brain."

Members of the MSU team have spent time in Zambia over the last year training local physicians and house officers in ways more accurately to classify patients with cerebral malaria. They also worked with the radiology department to be prepared to start the project at the onset of the malaria season, which began in December.

Taylor, who has been working in Malawi since the 1980s and spends six months each year there studying cerebral malaria, said MSU's collaborative approach in the region is crucial to making progress.

"The results to date from the Malawi MRI have greatly enhanced our understanding of how malaria wreaks havoc in the brains of patients with cerebral malaria," she said. "Dr. Potchen's project represents an excellent opportunity to expand upon the Malawi findings."

Potchen said this particular project is bridging much of the work done by MSU researchers in Malawi and Zambia. "Not only are we cooperating on work done by our staff, but this gives us the chance to build relationships among the health care communities in both nations on projects that are vital to both countries," he said.



For more information on MSU's work in Africa, go to <http://special.news.msu.edu/africa/>



For more information on the Dana Foundation, go to <http://www.dana.org/>

USAID Taps MSU to Lead Global Food Efforts

With a grant of up to \$25 million from U.S. Agency for International Development (USAID), MSU is working to improve agricultural production and reduce poverty in areas of the world suffering from rapid urbanization, population growth and skills gaps. Finding solutions to the problems that affect global food production is the focus of MSU's new Global Center for Food Systems Innovation (GCFSI). The center is part of USAID's Higher Educa-

tion Solutions Network – a partnership with seven American and foreign universities designed to develop solutions to global development challenges.

"By collaborating with top universities around the world, we hope to tap today's brightest minds and focus ingenuity on global development challenges," said USAID Administrator Rajiv Shah. "With the right ideas, we can reduce extreme poverty by more than 60 percent in just one generation."

MSU is widely recognized for its leadership in global food production and food safety and its work with partners across Africa. With another recent USAID grant of \$7.3 million, MSU will lead a program to cultivate the next generation of African and Asian agricultural scientists. A first cohort of 30 master's and ten doctoral candidates will matriculate at agricultural research institutions in Fall 2013.



Science, Technology, Engineering, Math (S.T.E.M.)

education takes many forms at MSU.

MSU is engaged at all levels in efforts to improve S.T.E.M. education in Michigan and the United States with pipeline projects for urban educators, world-class research, enrichment programs to support students in math, science and engineering and a top tier College of Education whose graduate programs in elementary and secondary education have ranked first in the nation for 18 years in a row.



GE Foundation Supports Expansion of Common Core Math Standards Research

The GE Foundation is supporting Michigan State University researchers as they study a major effort to improve mathematics education – the implementation of new common standards. University Distinguished Professor William Schmidt will use a \$1 million grant from the GE Foundation to expand his research on the Common Core State Standards for Mathematics (CCSSM). With a second grant (\$800,000) from the GE Foundation, MSU experts will assist teachers in aligning instruction to the CCSSM.

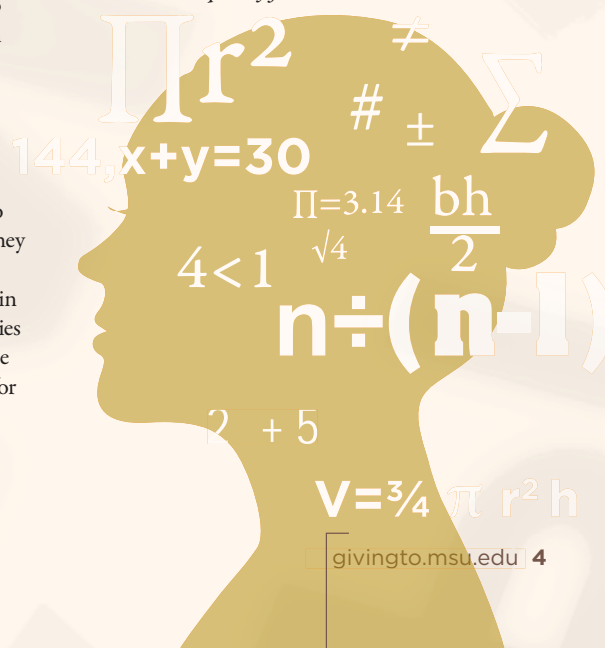
Known for his global research on math instruction, Schmidt forged a partnership with the two organizations that led the development of the standards, the Council of Chief State School Officers and the National Governor’s Association. The CCSSM were released in 2010 and have been adopted by 46 states. Previously, Schmidt and his team conducted surveys of school district curriculum directors, teachers, parents and students in the states that had officially adopted the CCSSM. They identified three potential impediments to the successful implementation of the Common Core: textbooks, teachers and leadership.

Schmidt says merely adopting more rigorous standards such as the Common Core will not likely change much unless the new standards are implemented appropriately. The research supported by the GE Foundation is designed to provide states, districts and teachers the tools they need to make the new standards a success.

Quality, world-class standards are a first step in providing rigorous and demanding opportunities to our nation’s children. Teachers must translate the new standards into classroom experiences for students. One major challenge is that the most widely used textbooks are poorly aligned with

the CCSSM and there is little evidence that the right kind of textbooks will be released in the near future, placing a substantial burden on teachers and administrators to restructure their curricula. Another challenge is that most U.S. teachers have not had the background in mathematics from their teacher preparation programs to be able effectively to teach the more rigorous content included in the Common Core, especially during the middle grades. The results of the Teacher Education Study in Mathematics (TEDS-M) in the U.S. and the Promoting Rigorous Outcomes in Mathematics/Science Education (PROM/SE) project, both led by Schmidt, suggest that professional development alone is unlikely to remediate this gap, and given its great expense, might not be the best use of resources. The third challenge to effective implementation of the CCSSM involves the leadership required from state, district and especially school-level administrators in order to shepherd the vast array of changes needed to improve the system of mathematics instruction.

The next phase of Schmidt’s research will include: continued development of a virtual system for textbook analysis and classroom Common Core implementation; a follow-up of the future teachers who participated in the TEDS-M project and are now teaching; surveys of district curriculum personnel, teachers and parents about the Common Core; and the ongoing study of states’ implementation of the CCSSM. Schmidt and his team have had extensive experience in the design and execution of major research projects investigating mathematics and science education. Their work has yielded numerous articles and several books including *Why Schools Matter*, *Teacher Education Matters* and Schmidt’s most recent book, *Inequality for All*.





DTE Energy Foundation Funds Engineering and Science Summer Academy

For the third consecutive year, in 2012 the DTE Energy Foundation provided a \$50,000 grant to support Michigan State University's Engineering and Science Summer Academy (ESSA), a six-week residential program initiated in 2007 by the College of Engineering Diversity Programs Office (DPO).

ESSA is designed to help incoming freshmen make an easier transition from high school to college, positioning them to be academically successful once fall semester classes begin.

"Through the generosity of the DTE Energy Foundation, we are able to provide housing for the ESSA program," said Theodore Caldwell, DPO director. "Without housing, we would not be able to have an ESSA; this support makes all the difference. We are extremely grateful for our partnership with the DTE Energy Foundation and look forward to continuing this relationship."

"Programs such as ESSA help to prepare the pool of diverse engineering candidates to meet the demands of the competitive workplace," said Karla Hall, vice president of the foundation. "We consider the grant an investment in our state's future energy leaders."

ESSA, which targets those deemed most at-risk, admits 20 students each summer. The selection criteria include a challenging interview process and several written assessments.

Caldwell describes ESSA as an "academic boot camp" that "puts freshmen through their paces." One participant said after completing ESSA, "If I could survive ESSA, I can certainly survive a regular college semester!"

"We believe that ESSA has already made a positive impact on retention in the College of Engineering," said Caldwell. "We are confident that it will continue to do so."

Each summer, ESSA participants attend daily classes in math, writing, and chemistry, and participate in "chalk talks" by engineering faculty, staff, and graduate students;

these informal presentations aim to connect students with these various groups and expose them to all engineering disciplines early on. ESSA students also participate in living-learning programs and activities designed to get students acquainted with the environmental and social aspects of college.

ESSA is the first component in a year-long retention strategy called the Diversity Programs Office Scholars Program (DPO-SP). The DPO-SP requirements include participation in ESSA, enrollment in specified math and engineering courses, bi-weekly meetings with DPO staff, and participation in a mentoring program that matches each incoming student with a third- or fourth-year engineering student.

Students who successfully complete the year-long DPO-SP program receive a \$1,000 scholarship, funded by MSU's Office of Inclusion and Intercultural Initiatives and the College of Engineering dean, and placement in a research assistantship the summer after their first year on campus.

DPO services include a guided learning center, advising, peer mentoring, and special seminars for professional development, as well as assistance with scholarships and internships. The DPO remains committed to increasing the recruitment and retention of a diverse student body, encouraging a greater understanding of national and international diversity to meet the needs of a multicultural and global society, and improving the climate for underrepresented students.

The DTE Energy Foundation is the philanthropic arm of DTE Energy, continuing the legacy of community support and involvement of its principal operating subsidiaries, Detroit Edison and MichCon.

For more information, visit dteenergy.com/foundation.

Dart Foundation Supports Michigan Science Olympiad State Tournament

The Dart Foundation continues its longstanding support for Michigan Science Olympiad (MSO) and the State Tournament Competition and Awards Program at Michigan State University with a three-year \$165,000 grant for 2012-2015.

Science Olympiad is an international nonprofit organization devoted to improving the quality of science education, increasing student interest in science, and providing recognition for outstanding achievement in science education by both students and teachers.

Dart Foundation

The first Science Olympiad National Tournament was held at Michigan State University in 1985. MSU has hosted the State Tournament and Awards Program each year since 1990. Beginning in 2004, the Dart Foundation has provided generous support for the state event. The most recent grant boosts their participation to nearly a dozen years.

The Office of the Associate Provost for University Outreach and Engagement (UOE) encourages all MSU colleges to engage in the Science Olympiad effort to offer activities that broaden the experience for pre-college students.

“The Dart Foundation is a key partner in the success of the Michigan Science Olympiad State Tournament,” said Hiram E. Fitzgerald, associate provost for University Outreach and Engagement, and University Distinguished Professor. “Their involvement bolsters our ability to utilize university resources to the best of our ability. The grant assures adequate financial support for planning, delivering and evaluating a well-run competition designed to support the efforts of Michigan’s schools to stimulate interest in science among Michigan school-age children.”

More than 450 high school and middle school teams engage in regional competitions during February and March, resulting in 96 teams selected to compete at the state tournament. With 15 students per team, joined by teachers, coaches, parents, grandparents and volunteers, the state tournament regularly brings nearly 3,000 individuals to campus for the annual April event.

The Science Olympiad program features inquiry and hands-on learning. The activities do not have known answers that can be memorized, instead they rely on exploration, invention, ingenuity and experimentation – fundamentals of the scientific process that influence critical skills necessary for life-long learning. All events require teamwork, group planning, and cooperation. The emphasis is on learning, participation, interaction, having fun and developing team spirit.

“No matter where the student teams finish in the Science Olympiad competitions, the individual participants gain from the experience. These young men and women are involved in the application of highly developed scientific concepts and processes, they engage in collaborative activities, they utilize their creativity, they represent their schools in academic competition, and most importantly, they see possible futures for themselves in science, math, engineering and technology,” said Claudia Deschaine, grants manager for the Dart Foundation. “We are delighted to partner with MSU and the Michigan Science Olympiad on the state tournament because it is aimed at developing scientific exploration and discovery in budding learners. Ultimately, we are achieving a workforce of capable individuals who can develop solutions for many of society’s great challenges.”

MSU’s large, contiguous campus and scientific facilities are ideally suited for the scale of the competition. East Lansing’s relatively central location in the state and the university’s longevity as the tournament host add accessibility and stability that participating teams value. Event estimates include more than 2,000 hours of volunteer time by MSU faculty, scientists, researchers, graduate and undergraduate students, and professional staff.

Many high school students who participate on Michigan Science Olympiad teams enter the college selection process with a highly favorable view of MSU’s faculty, students, scientific resources and the university’s land-grant mission to discover practical uses for theoretical knowledge.

“This is a well-designed program that is preparing future leaders to participate in a competitive, global economy that needs skills in science, technology, engineering and math for 21st century jobs,” said Fitzgerald. “We value the Dart Foundation’s sustained support of these efforts, and we are grateful they share our vision for this unique statewide educational partnership with the Michigan Science Olympiad.”

“The Dart Foundation grant advances our efforts to recognize the outstanding achievements of both students and teachers in the areas of science, math, engineering and technology.”

—Hiram E. Fitzgerald,
Associate Provost for University
Outreach and Engagement





Kellogg Founder's Summer Estate Receives Endowment

A \$1 million endowment gift to Michigan State University from the W.K. Kellogg Foundation ensures that the Kellogg Manor House and Estate in Hickory Corners, Michigan, will be maintained in perpetuity.

The endowment also supports internships for MSU students. Interns will undertake projects to enhance the property and will help develop programs that showcase the history of the estate and the story of W.K. Kellogg, founder of the Kellogg Company and the W.K. Kellogg Foundation.

"This gift ensures that the Kellogg Manor House will remain in excellent condition to be enjoyed by future generations," said MSU President Lou Anna K. Simon. "We

are profoundly grateful for the ongoing partnership and generosity of the W.K. Kellogg Foundation."

"We are glad to provide a way to enhance the educational experiences for students of Michigan State University and Kellogg Biological Station, while at the same time preserving the legacy of the W.K. Kellogg family," added James McHale, W.K. Kellogg Foundation vice president of program strategy.

The Kellogg Foundation deeded the property to MSU in 1952 for use in conjunction with the Kellogg Biological Station (KBS). KBS is MSU's largest research center, and in addition to the

Academic Center, includes the Kellogg Bird Sanctuary, Kellogg Experimental Farm, as well as the Manor House and Conference Center at Gull Lake. KBS faculty develop programs in research, education and outreach focusing on understanding the ecological and evolutionary processes in natural and managed ecosystems and how this can be applied to the conservation of natural resources and sustainable agricultural practices. Local school groups and teachers are frequent visitors to all of the KBS facilities, where lessons in basic science are imparted by highly qualified faculty, graduate students and technical staff.

W.K. Kellogg and his wife, Dr. Carrie Staines Kellogg, built the Manor House in 1925-26 and used it as a summer home until the early 1940s. In 1942, the Kelloggs offered the property for use by the United States military. The U.S. Coast Guard used the estate for induction and training; more than 3,000 active duty personnel passed through during the war. Later the home served as a rehabilitation unit for Percy Jones Hospital in Battle Creek. For the next decade, the house accommodated medical personnel and servicemen wounded in World War II.

In 1999 a \$3.5 million grant from the foundation allowed MSU to restore the Manor House and Estate to their original grandeur. The restoration project brought the historical building up to modern code, which involved extensive repair and replacement both inside and out, and re-furnished the Manor House with replicas of furniture that matched the originals. In

the ensuing 12 years since the restoration was completed, the Manor House and Estate have become a popular attraction in the Battle Creek-Kalamazoo area. Each year, about 8,000 people visit the Manor House for tours, school outings, lectures by visiting scholars, special events, business and professional meetings, weddings and celebrations.

“The Kellogg Manor House and Estate provide a unique opportunity to fulfill the mission of KBS by providing an entry point for the public to the research and educational programs being done at KBS,” said Kay Gross, KBS director, adding that MSU will work to leverage the foundation’s grant to raise an additional \$500,000, bringing the total endowment fund to \$1.5 million.

The W.K. Kellogg Foundation (WKKF), founded in 1930 as an independent, private foundation by breakfast cereal pioneer Will Keith Kellogg, is among

the largest philanthropic foundations in the United States. Guided by the belief that all children should have an equal opportunity to thrive, WKKF works with communities to create conditions for vulnerable children so they can realize their full potential in school, work and life.

The Kellogg Foundation is based in Battle Creek, Michigan, and works throughout the United States and internationally, as well as with sovereign tribes. Special emphasis is paid to priority places where there are high concentrations of poverty and where children face significant barriers to success. WKKF priority places in the U.S. are in Michigan, Mississippi, New Mexico and New Orleans; and internationally, are in Mexico and Haiti.



For more information,
visit www.wkkf.org.

Students with Autism Disorders

Get Strong Support from Baldwin Foundation

For students with autism or Asperger’s Syndrome, it can be overwhelming to try to connect with peers and professors or take advantage of resources to aid their success. But thanks to an initiative – Building Opportunities for Networking and Discovery (BOND) – opportunities for social and communication development are expanding at MSU. BOND was established in 2010 following a personal gift from Julie Mulnix Wolf. Ms. Mulnix Wolf serves on the board of the Baldwin Foundation, which in 2012 approved a five-year \$65,000 grant to support the BOND initiative.

Established in 1968, the Baldwin Foundation is a family foundation that primarily supports education, social services and the arts in Western Michigan. Since 1977, MSU’s two medical schools plus its Alumni Distinguished Scholars Program and Resource Center for Persons with Disabilities (RCPD) have been helped by foundation grants.

BOND benefits students with autism spectrum disorders and enables the university to welcome and engage them more fully. When the program began, it served around 25 students, but that number has nearly doubled. Autism spectrum disorders are a group of developmental disabilities that affect significant social, communication and behavioral skills. Designed to mitigate such obstacles, the BOND program aims to enhance social and

coping skills, connect students sharing similar challenges, build self-esteem and create a safe supportive environment in which to pursue opportunities. For instance, experiential learning provides a safe, comfortable environment to practice interpersonal skills.

Other facets of the program include individualized curriculum programming and service learning. The foundation’s grant will help expand the program, based on participant and coordinator feedback, to include outreach facilitation and mutual mentoring. Assistive technology is increasingly used to improve time management and build interpersonal skills.

Ms. Mulnix Wolf, whose grandson has autism, is a passionate BOND advocate. “The BOND Program and the RCPD team are spectacular in what they do with what they have to work with,” she said. “They are innovative, they are hard-working, and they put things together so well that I feel blessed to even be part of their work by association.”

The program has also made a lasting impact on its students. As one student explained: “Inclusive programs sponsored by the RCPD such as BOND made a world of difference to me during my freshman year. I can only imagine the benefits of a campus-wide social outreach that aims to make everyone feel at home at East Lansing, truly proud to be a Spartan.”



Social Media Research to Help Teens Get Ready for College

A Michigan State University researcher plans to help U.S. teens get better access to college by connecting them with social resources already at their fingertips: Facebook friends.

The College Connect app will help identify people within a user's Facebook network who are likely to be valuable sources of college-related information, such as those who list an alma mater on their profile or like a university's Facebook page.

Christine Greenhow, assistant professor in the MSU College of Education, will develop the app with colleagues at the University of Michigan and the University of Oxford. They'll use a \$100,000 grant from the College Knowledge Challenge, a competitive grant initiative funded by the Bill & Melinda Gates Foundation and administered by College Summit, Inc.

The contest is focused on creating new Facebook apps for education that make the college-going process more transparent, collaborative and easy to navigate for all

students, but especially for low-income and first-generation students. Greenhow's team was one of 21 winners worldwide.

"Today's teenagers are Facebooking in their free time," Greenhow said. "Our app will leverage the power of Facebook to address a persistent educational problem, that kids from upper-income families are 10 times more likely to get a four-year college degree than kids from low-income families. This app could help all students learn about college."

While some students may not have close friends or immediate family members with knowledge about obtaining a four-year degree, College Connect could help them find Facebook friends of whom they would be more likely to ask questions about college experiences or particular institutions. The app will display a visual network of Facebook friends with various types of college affiliations, creating a pathway for identifying useful connections and sources of information.

Free online apps exist that produce visualizations of Facebook networks, but this will be the first to address college access issues. It expands a social network program developed at Oxford.

Greenhow is working with Nicole Ellison, associate professor in the School of Information at U-M, and Bernard Hogan, research fellow at the Oxford Internet Institute. The researchers are partnering with national college-access organizations such as College Possible, as well as school districts serving high percentages of low-income and underrepresented students.

*Christine Greenhow,
assistant professor
in the College
of Education*



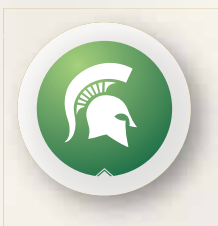
Kellogg Foundation Endows Leadership Program

In 2012 the W.K. Kellogg Foundation continued its longstanding partnership with Michigan State University through a \$250,000 grant to endow the Great Lakes Leadership Academy (GLLA).

GLLA got its start in 2004 with the aid of a planning grant from the Kellogg Foundation. GLLA's mission is to promote positive change, economic vitality and resource conservation and to enhance the quality of life in Michigan by encouraging leadership for the common good. Administered through the MSU College of Agriculture and Natural Resources, MSU Extension and the

Michigan Agricultural Experiment Station, the academy offers leadership training for stakeholders across Michigan.

GLLA offers an Emerging Leader Program and a Leadership Advancement Program for leaders from a range of backgrounds representing key stakeholders in Michigan. Participants deepen their understanding of sustainability issues and engage in hands-on team experiences. The programs open opportunities for network building, while participants engage in developing leadership skills as they gain perspective about critical issues facing communities, food systems and agriculture, natural resources and environment, and business and manufacturing sectors in Michigan. The Kellogg Foundation endowment grant provides operational and program support for the academy.





Opened in November 2012, Broad Art Museum has drawn tens of thousands of visitors to the MSU campus to explore the Zaha Hadid-designed building and view the traveling exhibits by contemporary artists alongside pieces from the university's own collection. The Broad Foundations and Eli and Edythe Broad were the lead donors to the museum.



Alan Mulally, president and CEO of Ford Motor Company, interacts with students from MSU's Broad College of Business and College of Engineering following his address to a packed auditorium during "Ford Day on Campus." Recruiting teams from the company were also on hand throughout the day to meet with MSU students.



The P&G Leadership Lounge in the Eppley Center (Broad College of Business) was officially opened on September 12, 2012. Procter & Gamble was represented at the ribbon-cutting by Peter J. Wojda, Jr. (5th from left, holding scissors). Wojda is associate director, Beauty & Grooming Product Supply, Procter & Gamble Company, and a graduate of MSU's College of Engineering. The Eli and Edythe L. Broad Dean, Stefanie Lenway, is holding the other half of the scissors.

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