1. **Monitoring Social and Economic Impacts of Green Infrastructure: Blueprint Columbus**  
   **Jeremy Brooks (School of Environment and Natural Resources)**  
   Blueprint Columbus aims to improve water quality using green infrastructure (GI), but GI may also improve mental health, physical health and social relationships. Previous research has produced mixed results about whether and in which contexts GI can produce such benefits and has largely ignored whether the planning and implementation process affects perceptions of GI in a way that affects these impacts. This project will use interviews and focus group meetings in two Columbus neighborhoods to address these gaps by capturing local perceptions of the process and outcomes associated with GI installation.

2. **Compact Browser-Based Reading Verification for Early Childhood Reading Fluency**  
   **Eric Fosler-Lussier (Computer Science and Engineering)**  
   Repeated reading has been demonstrated to be an effective paradigm for improving reading fluency in early childhood learners. Computer-assisted technology can provide students with additional guided practice in the classroom, effectively augmenting feedback from teachers. This project will make reading verification ubiquitously accessible via a web browser and use advances in neural network deep learning techniques to improve the detection of reading errors. The proposed approach will also more easily allow reading passages to be personalized to the learner and better supplement classroom activities.

3. **Data Science for Women Summer Camp**  
   **Dorinda Gallant (Educational Studies)**  
   Exposing young women, especially underrepresented minorities, to data science and analytics (DSA) when they are starting to think about college and career paths (middle/high school) is one way to address the lack of diversity in this field. This project will launch a summer camp for young women in grades 8-10 recruited from Columbus City Schools, starting in July 2018 and annually thereafter. The camp will provide 30 young women with a wide variety of activities in DSA to encourage the students to consider DSA as a career choice.

4. **The Global Sustainable Village**  
   **Scott Shearer (Food, Agricultural and Biological Engineering)**  
   Ohio State students have a desire to positively impact humanity as part of their education. As they have undertaken humanitarian courses and projects to “to improve the human condition,” a gap has been identified between classroom learning environments and the field. To close this gap, a Global Sustainable Village (GSV) will be a physical focal point for this project work and provide an authentic setting for problem solving. The ability to develop technologies in a representative setting before field introduction will improve student learning, foster interdisciplinary collaborations, strengthen Ohio State-partner relationships and improve the impact of community development efforts.

5. **DNA Workshops in Rural Ohio Schools**  
   **Amanda Simcox (Molecular Genetics)**  
   DNA technology offers the next generation great job opportunities, and capturing interest early is critical for developing this workforce. Tenth-grade biology is an opportunity to expose students to hands-on experiences with DNA technology, but the lack of resources and teacher expertise means biology is often taught as a “book-science.” This project will engage Ohio State undergraduates on an alternative spring break, gaining valuable leadership experience while conducting outreach to this underserved population. These Ohio State role models will provide exciting science experiences, and also make college seem more reachable.

6. **Engineering Design to Enhance Urban GEMS**  
   **Deanna Wilkinson (Human Sciences)**  
   This project will engage Ohio State engineering undergraduates with urban middle school students to design and build a low-cost remote sensing system to facilitate deploying 36 indoor aeroponic growing systems dispersed on the south side of Columbus. The project will broaden the perspectives of Ohio State students by positioning them to utilize their skills to solve real-world problems and to experience firsthand the potential societal impact of technology. In addition, it will provide emergent exposure to STEM for middle school students in Urban GEMS and provide a technological solution to improve the aeroponic growing system.
1. Assessing Trustworthiness in Social Media
   Marie-Catherine de Marneffe (Linguistics)
   The rise of social media has created an information flood, but which information can be trusted? Factors including exact language used and the credibility of the source impact the veridicality of a statement. This project uses the analysis of veridicality and trustworthiness in social media as a gateway to engage students in linguistics and computer science. A course module will be developed to include introductory linguistics and programming assignments, culminating in an interactive demo that assesses the credibility of social media accounts and rates the veridicality of claims in social media.

2. Using Technology to Support Communication: Training Parent and Teacher Buy-in
   Allison Bean Ellawadi (Speech and Hearing Science)
   Approximately one percent of the population in the United States is unable to communicate effectively using spoken language. Alternative and Augmentative Communication (AAC) devices enable these individuals to communicate. Smart phone and tablet apps enable those devices to function as AAC devices, acting as the “voice” of an individual. Although the use of smart phones and tablets as AAC devices has increased awareness of and access to AAC, these devices continue to be abandoned/rejected. This project will investigate the impact of teacher and parent buy-in training on AAC use in school-age AAC users.

3. MAJI MARWA: Sustainable and Resilient Tanzania Community
   Michael Hagenberger (Civil, Environmental, and Geodetic Engineering)
   The Village of Marwa in rural Tanzania, with an estimated population of 5,000 – 7,000, is located approximately ten kilometers from the Pangani River, a permanent water supply with its source running off Mt. Kilimanjaro. Marwa lacks the technical ability and financial capacity to sustainably access and treat this water source. The Sustainable and Resilient Tanzanian Community (SRTC) program is an interdisciplinary, international development service learning initiative that brings together students from Ohio State University and the University of Dodoma, Tanzania’s largest public university, in leading-edge civil engineering and community development practice and local Indigenous resource management systems. Maji Marwa, or “Water for Marwa,” focuses on bringing clean, safe and accessible water to the village, while training the next generation of engineers, scientists and development workers in providing real-world solutions to real-world needs.

4. Community Gardens as Tools to Promote Science Education
   Maria Miriti (Evolution, Ecology, and Organismal Biology)
   Efforts to recruit students from underrepresented backgrounds into careers in evolution, ecology and organismal biology (EEOB) and other STEM disciplines commonly target undergraduates by providing research opportunities. However, these efforts have not appreciably increased the diversity profile of EEOB professionals over the past 20 years. This project applies Participatory Action Research (PAR) to engage youth at an earlier age in community gardening, a growing national movement that promotes healthy eating in food deserts while also empowering youth and promoting social change. Students interact with science professionals and youth from other communities to design and plan garden space, becoming immersed in science to explore human impacts on the environment and discovering pathways to STEM careers.

5. Shake the Shoe: Connecting Earthquake Science and Football with the Best Fans in the Land
   Derek Sawyer (Earth Sciences)
   Vibrations created by the 100,000+ fans during Ohio State football games can be recorded and analyzed just as an actual earthquake. The Shake the Shoe project will use seismometers to measure these “FanQuakes” at the Shoe. The data obtained will be used as an education and outreach tool about the science, technology and hazards associated with earthquakes. Classroom exercises, a publicly accessible website and interactive exhibits at COSI and other locations will engage and inspire current and future students and leaders.
2016

1. **Dance in Transit**  
   *Harmony Bench, PhD (Dance)*  
   This digital humanities research project will employ data analytics to complete the historical record of modern dance performance in the first half of the 20th century. The project explores the relation between touring performers and the modes, networks and infrastructures of transportation that link cities, countries and cultures. The result will be a publicly accessible database extensively documenting an estimated 30,000 individual performances, and a digital scholarship on mid-century African American choreographer Katherine Dunham. Dunham conducted anthropological research in the Caribbean, transformed her ethnographic observations into choreographed works for the stage and toured domestically and internationally with her dance company.

2. **Interactive Teaching Station for Child Restraint Installation**  
   *John Bolte (Anatomy)*  
   The project will develop a hands-on educational station allowing caregivers to practice installing child restraints and receive personalized feedback. Motor vehicle accidents are a leading cause of death of children in the United States. Child restraint technology is effective at preventing death and injuries when used appropriately. Unfortunately, up to 93% of child restraints on today's roads are being used incorrectly. The station will include child restraints instrumented with sensors, an instrumented vehicle seat, instrumented dolls and an interactive computer interface. In addition to real-time educational feedback to the user, the software will record information about the users’ errors during all installation attempts and provide these data to researchers.

3. **The Philosophical Problem for Machine Morality**  
   *Justin D'Arms (Philosophy)*  
   The project addresses the philosophical problem facing engineers designing autonomous machines: how to ensure that machines behave ethically. The team will conduct philosophical research to examine approaches to programming morality, develop educational materials to be used in the classroom and develop a conference at which local philosophers and engineers will be exposed to the best current work on issues about how to program machines for moral competence.

4. **Creating Oral Histories by Fostering Digital Technological Literacies in Jamaica**  
   *Valerie Kinloch (Teaching and Learning)*  
   A collaboration among Ohio State faculty, staff and students to collect and document oral histories and digital technological literacies of Black educators and students in Jamaica. Project goals are to increase access to digital technologies in a Black postcolonial community that has limited access to these tools, engage in community dialogues about oral histories and support exchanges about language, culture and digital technological literacies among participants in Jamaica and Ohio.

5. **Wind|Farm**  
   *Michael Mercil (Art)*  
   The project is an experimental artwork establishing a temporary (two year), 500 square foot, on-campus, green-energy park whose centerpiece includes a 70’ tall, gold gilt wind turbine generating electricity to support the display of new video artworks in the Wexner Center galleries. Wind|Farm culminates a trio of Living Culture Initiative artworks at Ohio State, and will complete the rotation of this site from flowerbed to working garden, to orchard and livestock pasture, to carbon storage bank and green-energy park. Collaborators on the project involve the Department of Art, the Wexner Center for the Arts, the Office of Energy Services and Sustainability and the Social Responsibility Initiative in the College of Food, Agricultural, and Environmental Sciences.

2. **The Revolution in Cosmology and Fr. Georges Lemaître’s Hidden God**  
   *Christopher Orban (Physics)*  
   An interdisciplinary study of the life, work and thought of the astrophysicist-priest who was one of the most remarkable figures of early 20th century cosmology. Lemaître helped lay the groundwork for the Big Bang theory, and his life and work represents one of the most interesting interactions between science and faith in the 20th century. The project will involve a collaboration between members of Ohio State’s physics, astronomy and philosophy departments to develop coursework to teach about Lemaître and the wider context of his work, a student-led STEAM project to depict the expansion of the universe and public lectures on Lemaître’s life, work and his philosophical and religious thinking.
1. The Columbus Sound Track Project: Engaging Citizen Scientists to Map Noise Levels in Columbus, OH
   Lawrence Feth (Speech and Hearing Science)
   Noise can deleteriously affect learning, quality-of-life, biodiversity and health. This project will use a citizen-scientist approach to create a noise-map of the Columbus metropolitan area. Members of the public with smartphones will be able to download a free app to measure noise levels tagged with GPS coordinates. COSI will host an interactive display allowing users to explore noise levels in different Columbus locations at different times of day. The display will also be available for exploration online. This project will engage the public in the scientific process and raise awareness of possible implications of different levels of noise.

2. Culturally Relevant Reading Instruction for Urban Learners Using Voice Activated Computer Assisted Instruction (CAI)
   Ralph Gardner III (Educational Studies)
   Reading is an essential skill for school success. Poor reading skills place children at risk for school failure and substantially impair long-term possibilities for social mobility and economic success. Currently, the state of Ohio mandates retention of all third grade students who fail the state reading tests. This research combines innovative computer assisted instruction (CAI) using voice recognition software and culturally relevant reading materials to improve the reading fluency and comprehension of first and second grade urban learners at risk for reading failure. The project is designed to demonstrate the effectiveness and applicability of this CAI intervention in urban schools.

3. Toy Adaptation Program: A Plan for Continuation and Growth
   Rachel Kajfez (Civil, Environmental and Geodetic Engineering and Engineering Education Innovation Center)
   Many engineering students struggle to connect engineering and societal impact. The Toy Adaptation Program (TAP) meets this need by providing hands-on engineering experiences (workshops, labs, and community service sessions) that allow students to apply their technical knowledge while adapting electronic toys for children with disabilities. While the experiences for students allow them to connect concepts related to circuits, soldering and reverse engineering to societal impact, the experiences themselves result in adapted toys that can be donated to toy libraries and families in need. These outcomes allow this program to not only benefit engineering students but also the community.

4. Mediated Spaces and Human Experience: Using Locative Technology to Enhance Presence and Place
   Maria Palazzi (Advanced Computing Center for the Arts and Department of Design)
   The One Ohio State Framework initiative recommends connecting ideas and information throughout the university. Enhancing connections between spaces and inhabitants supports this goal. Digital media and mobile devices augment our relationship to our environments with otherwise invisible evidence of history and culture. Seeding spaces with beacon technology will embed new layers of mediated information in Sullivant Hall to be delivered at contextually relevant locations, thereby exploring how locative technology as a form of presence design can best connect people with history, local culture and the university.

2014

1. Student-developed Sustainable Housing Solutions in Central America
   Howard Greene (Engineering)
   Senior capstone students in multiple disciplines engage with university partners and residents in Honduras to develop and deploy a sustainable, replicable housing solution for the rural poor. Activities encompass conducting focus groups, developing concepts, designing and building prototypes, business plan development and building a pilot Honduran residence. The experience provides a transformational educational opportunity that fosters interdisciplinary collaboration while allowing students to comprehend firsthand the global context of the solutions they develop.

2. ITS STEM
   Joan Herbers (Evolution, Ecology and Organismal Biology)
   An Institute for The Study of Science, Technology, Engineering, and Mathematics (ITS-STEM) to serve as an intellectual hub for scholars who study the social, ethical, legal and educational challenges presented by science and technology. ITS-STEM will provide a forum for faculty to explore how the cultures of science and technology affect their work. Activities include a colloquium series, an outreach program and acquisition of external funding.

3. Harnessing Education and Technology for Environmental Detection (HEATED)
   Bryan Mark (Geography and Byrd Polar Research Center)
   A Maymester course where a diverse group of students design and build a device to collect geo- and time-tagged temperature data when deployed on moving vehicles, and to create a database, to store and assimilate data collected by the device. This project will result in a device prototype; an innovative, replicable course; data to better understand urban heat islands; and a multidisciplinary team prepared to continue research through other funding opportunities.
4. **Engineering, Technology, Human Affairs, and Social Justice: From Columbus to Colombia**  
*Kevin Passino (Electrical and Computer Engineering)*  
Engineering can improve “human affairs” by promoting social justice via new technologies tailored to the needs of disadvantaged communities, and education to build technological capacity. This project is focused on: (a) cross-cultural K-12 STEM Outreach in Columbus and Colombia; (b) technology development for people who are poor or homeless in Columbus; and (c) technology development for engineering laboratories in disadvantaged universities in Colombia. Results will be used in a course and book on humanitarian engineering.

2013

1. **Narrowing Technology Gaps between Ohio State and Eastern Africa Using Mobile Electronic Data Capture and Analysis System for Zoonotic Diseases Research and Training**  
*Wondwosen Gebreyes (Veterinary Preventive Medicine)*  
This project aims to provide opportunities for Ohio State students and faculty members to conduct a research outreach using a Mobile Electronic Data Capture and Analysis System for monitoring foodborne pathogens in Eastern Africa. The proposed study aims to (a) narrow the technology gap and to facilitate scientific networking between Ohio State and eastern Africa partners; (b) enhance interactions among producers, scientists and policymakers; and (c) improve the livelihood of poor urban and peri-urban livestock producers in minimizing zoonosis.

2. **The End and the Beginning of Everything**  
*Shane Mecklenburger (Art)*  
The End and the Beginning of Everything is a collaborative art-science initiative between the Ohio State Departments of Art and Astronomy, the University of Chicago Department of Astrophysics, Chicago’s Adler Planetarium and the Advanced Computing Center for the Arts and Design (ACCAD). Accelerating technologies are amplifying astronomers’ ability to model and observe, expanding our understanding of life and the universe. This initiative guides young artists in creatively interpreting astronomical research for a public contemporary art exhibition.

3. **Big Data and the Social Future**  
*Peter Shane (Law)*  
A multidisciplinary conference on the potential for new enterprises grounded on big data to improve economic, social and political life. The program would publicize the potential of big data enterprises in Columbus, and raise awareness of key law and policy issues. Potential topics include big data as an economic driver, challenges to privacy and information security, big data infrastructure requirements and big data as it relates to government accountability, health care and the urban future.

4. **Understanding Asia through Religion and Art: Creating Finding Aids and Search Tools for a Database of Original Source Materials**  
*Patricia Sieber (East Asian Languages and Literatures)*  
Understanding Asia, particularly through its religions and belief systems, is an imperative in today’s global environment. This project will create “finding aids” for the online database of approximately 262,000 photographs in Ohio State’s Huntington Photographic Archive of Buddhist and Asian art. Currently aimed at scholars with advanced knowledge, the archive can vastly extend its reach to multidisciplinary and multi-level audiences through enhanced search capabilities, fostering education about Asia, and creating a template for other databases.

2012

1. **Communicating Health Sciences: Emerging Challenges and Opportunities for Public Engagement**  
*John Barnard (Pediatrics)*  
The promise of modern health science will be realized only if it is understood and adopted by an appropriately informed public. The media is a key factor in creating understanding. We propose two public colloquia, one on personal genomics and the other, nanomedicine, involving health care scientists, science communication experts and journalists. The result will be a unique discourse leading to greater understanding and better communication strategies in these two important emerging areas of health care.
2. **SistaAction: Black Girls Creating Digital Futures**  
*Elaine Richardson (Teaching and Learning)*

The SistaAction project proposes to enhance the critical media literacy skills of urban Black middle school girls in an afterschool mentoring setting, by providing them with access to digital and internet technology tools and assistance in the creation of self-authored counter narrative media productions that support wider representation of empowering images of young women. While work is local, this work addresses a national and global problem through which girls of color experience socialization into oppressive race and gender roles through mainstream mass mediated popular culture.

*Mary Tarantino (Theatre)*  

The study of light is often compartmentalized, isolated into physics, installation art, theatrical/entertainment, engineering and sustainability. Re-visioning Light in Our Lives brings together individuals from architecture, engineering, theatre, ACCAD, and outside project partners and consultants to examine lighting as it informs human needs, energy efficiency and structures. Student teams will engage the community in outreach research inquiries and construct site-specific installations, testing contemporary lighting applications with an emphasis on lighting function and quality.

4. **Seeds of Learning: Creating a Language Sciences Pod at COSI**  
*Laura Wagner (Psychology)*  

This project will create a research “pod” at the Columbus Center for Science and Industry (COSI) dedicated to the study of language. Ohio State faculty will conduct state of the art research studies inside the pod using museum visitors as research participants. Trained Ohio State students will provide educational explanations to adult and child visitors, promoting understanding of language sciences and the scientific process more generally.

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**2011**

1. **E3 Lab: Sustainable Development Solutions for Energy, Economy and Equity in Africa**  
*Charisma Acey (Architecture)*  

The proposal establishes E3 Lab, a local energy solutions incubator for household alternative energy technologies in sub-Saharan Africa. The Ghana Sustainable Change program would examine biodigesters, a low-cost method of renewable energy production from the anaerobic digestion of organic waste. Using geographic information systems (GIS) students and community leaders would prioritize locations for siting biodigesters, as well as tracking adoption and diffusion. The E3 internet portal will enable ongoing communications between community members and study abroad participants.

2. **Dance Fort: An Interactive Archive of Choreographic Process**  
*Bebe Miller (Dance)*  

For decades, the traditional method of an artist’s choreographic legacy has been in the documentation of the finished work: videotapes of performance, photographs, etc. With Dance Fort, we seek to create opportunities for artists and scholars to inscribe history in a living way and, using existing and emerging technologies, create archives that are dynamic and equally useful to the current and next generation, shifting the paradigm of an artist’s archive from artifact to artwork.

3. **Exploration of the Geometry and Cosmology of the Newark Octagon Earthworks**  
*Alan Price (Design, Advanced Computing Center for the Arts and Design)*  

This project is for the design of an interactive computer application for analysis and understanding of the geometric relationships of Ohio’s Newark Octagon Earthworks to observations of the Moon and Sun. The simulation model will be used for research and to educate the public about these ancient sites in Ohio, and how scientific thinking and observation played an important role in the culture of ancestral Native America.

4. **Reaching for the Moon: Technology for At-Risk Preschool Children**  
*Kathy Cabe Trundle (Teaching and Learning)*  

This project assesses the efficacy of using software to develop young children’s computer skills and understanding of targeted science and mathematics concepts. Preschool teachers will be provided with professional development opportunities to develop their understandings of concepts and technology skills. The outcomes are increased teacher preparation and school and technology readiness for young children. This readiness is especially important for at-risk learners; without it they fall behind upon kindergarten entry, especially in STEM pathways.
1. Service Learning and Technology Transfer in Veterinary Public Health and Biotechnology: OSU-VPH-Biotech Eastern Africa  
Wondwossen Gebreyes (Veterinary Preventive Medicine)  
More than two-thirds of emerging infectious diseases are zoonotic. Ohio State initiated a consortium in Eastern Africa where zoonotic diseases cause significant burden but technological capacity is lacking. While Ohio State has successful programs in infectious diseases, students are lacking global perspectives and first-hand exposure. Using the “One Health, One Medicine” approach, we propose to conduct service learning activities to enhance Ohio State students’ practical knowledge while contributing to control of zoonotic diseases and build biotechnology capacity.

2. Development of Globally Competent and Socially Engaged Engineers: International Collaborative Design Project for Aerial Detection of Landmines  
James Gregory (Mechanical and Aerospace Engineering)  
The proposed project is a student-designed and constructed remote-control air vehicle for rapid, aerial detection of landmines. This project will develop technology that directly benefits society, and serve as a context for the development of future leaders in engineering who possess an integrated worldview of technical excellence, service and global citizenship. A broad impact will result from citizens and students of eastern and western societies discussing the interface between technology and society via videoconference.

3. Shifting Centers: Creative Collaboration in and outside of Africa through Cyberlearning and Ubiquitous Technologies  
Esther Marian Baker-Tarpaga (Dance)  
African and American contemporary choreographers use cyber technology and web-based communities as a space for artistic exchange and innovation. This proposal seeks funding for the development of an online performance symposium. Funds will be used to support research meetings with key collaborators, internationally recognized, award winning artists in Senegal, South Africa, Morocco and Kenya. The symposium content will be determined by the research and creative work of the artists and students collaborating and contributing to the project.

4. Reading the Code: Genetic Literacy Across the Middle School Curriculum  
Richard Voithofer (Educational Policy and Leadership)  
This project addresses the emerging need for genetic literacy. Through the creation of a problem-based learning computer simulation, this project will provide a learning technology for middle school students that crosses mathematics, science and social studies. The ultimate outcome of this project is to help the leaders, STEM workers and citizens of tomorrow to begin to understand the positive and negative impact of the growing body of genetic knowledge and increasing capacity for genetic manipulation.

2009

1. Influence of Culture, Society and Religion on the Practice of Veterinary Medicine in Thailand: The Anatomy, Habitat, Health and Behavior of Asian Elephants  
Nongnuch Inpanbutr (Veterinary Biosciences)  
The proposed project is to develop an audiovisual program revealing how culture, social and religion influence the practice of veterinary medicine in other countries such as Thailand. This educational program also includes anatomy, habitat, health and behavior of Asian elephants. This program will increase cultural sensitivity and enhance awareness of cultural diversity for students and elevate the quality of education on Asian elephants. This will promote International Studies at Ohio State, nationally, and globally.

2. Enhancing Interest in Science and Technology by Engaging High School and Undergraduate Students in Real-Time Research Projects  
Parwinder Grewal (Entomology)  
Ensuring the vitality of the nation’s scientific and technological enterprise requires that we tap the talents of all citizens. The goal of this summer program is to enhance student interest in science, technology, engineering and mathematics (STEM disciplines) by immersing them in ongoing, OARD research projects. By opening the doors to underrepresented high school and undergraduate students from rural areas, the program will influence future leaders and effectively engage Ohio State in the community.
3. **The Virtual Pasture**  
*Michael Mercil (Art)*  
The Virtual Pasture is a project for the Department of Art with the College of Food, Agricultural, and Environmental Sciences and the Wexner Center for the Arts. Beginning in spring 2009, The Virtual Pasture reanimates the central campus landscape with a small flock of sheep grazing off-site, but streaming through images transmitted live to a video monitor installed outside the Wexner Center to face the Oval. The project includes working with Ohio State Extension’s 4-H Youth Program to produce a documentary video. Through these and related activities, The Virtual Pasture creates a visible public forum for a variety of issues regarding the local production, marketing and distribution of food in an increasingly industrialized, mechanized and technology-centered agricultural economy.

4. **Every Reader, Every Writer Has a Story**  
*Cynthia Selfe (Center for the Study and Teaching of Writing)*  
“Every Reader, Every Writer Has a Story” focuses on the importance of preserving literacy stories, especially for groups whose literacy history has been ignored. These presentations and workshops acquaint audiences with the Digital Archives of Literacy Narratives (DALN), the first public, online repository to preserve personal accounts of how individual citizens, families, and communities learn to read and write, and how literacy shapes their lives. The DALN supports historical, educational and community research on literacy.

5. **Antibiotic Resistance Transmission through the Global Food Chain: Public Health Impact and Intervention Strategies**  
*Hua Wang (Food Science and Technology; Microbiology)*  
The rapid emergence of antibiotic resistant (ART) bacteria is becoming a major public health threat. Our studies found that ART non-pathogenic and “beneficial” bacteria were highly prevalent in conventional food products, and the food chain has become a significant community-based avenue transmitting ART to humans. We seek Battelle support for education/extension activities (international conference, food safety video, publications) to reveal and control the global health impact of ART bacteria.