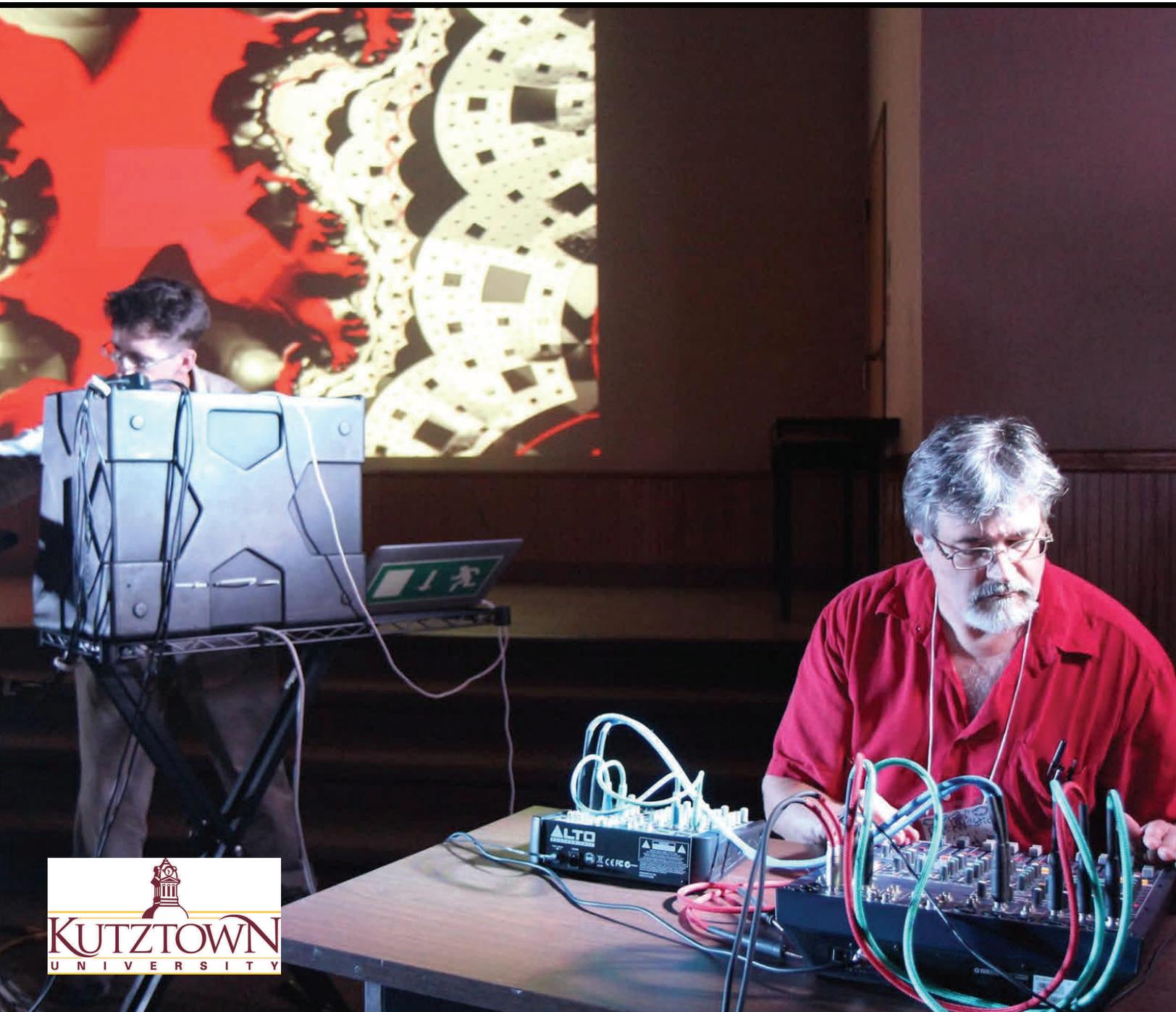


KU

Grants and Sponsored Projects

Funding Year in Review

July 1, 2014 - June 30, 2015





Kutztown University Sesquicentennial Grant Funding

The Sesquicentennial Grants support classroom efforts to enhance student learning through the inclusion of external speakers, class trips, or other projects that require funding to bring to fruition. These grants are intended to celebrate academics and add a special character to classes taught during Kutztown University's sesquicentennial.



Lorri Engstrom

College of Business | Sport Management & Leadership Studies

Selling in Sports Conference/Seminar

Amount Awarded: \$800

Overview: The Department of Sport Management & Leadership Studies will organize a professional sales training event for students in the Leisure and Sport Studies major during the spring 2016 semester. The sales training seminar will fill a gap in the student's preparation for their professional careers in the sport industry by giving the students the foundational skills required of graduates working in the field. A professional trainer will address topics including: approaching the prospect, making an effective sales presentation, overcoming objections, closing the sale, and follow-up. As a further enhancement, students attending the event will be able to include having had the sales training on their resumes. Students will also have the opportunity to participate in the organization and implementation of the event, giving them first-hand experience in event planning.



Soo Goh

College of Visual & Performing Arts | Music

Visiting Clarinet Guest Artists – Kevin Schempf and Michelle Gingras

Amount awarded: \$800

Overview: This project aims to capture the spirit of Kutztown University's founding mission as a teaching institution by inviting some of the best educators to the university. Guest artists Kevin Schempf and Michelle Gingras are well-established clarinet pedagogues. Kevin Schempf is an associate professor of music at the Bowling Green State University in Bowling Green, Ohio. He was the solo clarinetist with the Pittsburgh New Music Ensemble and performs regularly on the bass clarinet with the Toledo Symphony Orchestra.

continued

(Soo Goh continued)

Michelle Gingras is a Curry Distinguished Educator and Distinguished Scholar of the Graduate Faculty at Miami University. As an accomplished clarinetist, Gingras is also an active Klezmer musician. Klezmer is the traditional music of the Ashkenazi Jews of Eastern Europe. The clarinet plays an essential role in Klezmer music.

Schempf will conduct a clarinet masterclass and perform an evening recital. Gingras will also conduct a clarinet masterclass and an introductory Klezmer workshop to the Kutztown University community. Their presence is a rare opportunity for our community to interact with highly regarded clarinetists in the field.

Bruce Jensen

Academic & Student Affairs | Library Services

Food Chains: Activism, Agriculture, and the Ethics of Eating

Amount Awarded: \$800

Overview: Two hard-hitting documentary films that explore our food system's unpleasant, difficult-to-stomach underbelly, *Food Chains* and *Cowspiracy* both provoke young viewers to engage issues whose impact on their quality of life is already profound: global warming, economic injustice and organizing, nutrition, and health. These screenings feature live discussions with distinguished guests including Gary Francione (Distinguished Professor of Law & Nicholas de B. Katzenbach Scholar of Law and Philosophy, Rutgers University); Dr. Milton Machuca, (Anthropologist and Coordinator of Latin American and Latino Studies at Swarthmore College) whose extensive study of south Chester County's immigrant agricultural labor communities began nearly two decades ago; and legal professionals from Friends of Farmworkers, a Philadelphia organization with 40 years of advocating for our region's agricultural workers. This series is designed to inspire serious consideration of two issues: how our food sources and choices affect everyone, and how our academic work—empirical scientific research and informed debates in the humanities shape policy decisions with real-life effects, reminding students that their dedication to their studies can help shape a better world.



Deryl Johnson

College of Visual & Performing Arts | Communication Studies



Kristin Pedemonti: True Tales of My Experiences in Iran

Amount Awarded: \$800

Overview: Kristin Pedemonti is an award winning Cause-Focused Storyteller & Speaker, a finalist in TED Talks Worldwide Talent Search and a TEDx Speaker. Currently, she lives in Washington DC where she works with the World Bank as a Storytelling Consultant. Her passions are building bridges between cultures, breaking stereotypes and changing perceptions of the developing world to value the incredible potential and innovation she has witnessed first-hand. She never leaves home without her Free Hugs sign or bubbles to share.

Kristin graduated from Kutztown University in 1989 with a BA in Speech & Theatre and is forever grateful for Roberta Crisson and Theresa Patrick for inspiring her and planting the seeds of using Story for creating change!

During her visit, Kristin gave two 1-hour performances and conducted two 50-minute workshops with students. More than 300 students participated in her 2-day residency.

Kevin McCloskey

College of Visual & Performing Arts | Communication Design



Alan Altamirano: Visiting Artist from Mexico

Amount Awarded: \$600

Overview: Alan Altamirano of Oaxaca, Mexico completed a successful 2-week artist residency at Kutztown University. He exhibited his large-scale prints in the Sharadin Building and taught a linoleum print workshop for faculty and MFA students. He worked in the Printmaking studio alongside Professor Serena Perrone and art students during scheduled classes. He visited Professor Caroline Montezuma's Spanish class and spoke about his life and artwork in Spanish. Through his class visits and exhibition, he made a lasting impression on well over 100 students across campus.

Carrie Nordlund

College of Visual & Performing Arts | Art Education & Crafts



Place, People, Purpose, and Practice: Service Learning through Art

Amount Awarded: \$700

Overview: This grant offered Kutztown University students in *ARU332 Teaching Art in Alternative Settings* a community outreach opportunity through arts-based service learning. Throughout the semester, *ARU332 Art in Alternative Settings* focuses on place/setting as a cultural site. Students in the course analyze diverse settings through the following contexts: (1) place, (2) people, (3) purposes of art, and (4) practices with art. With this grant, students will be able to experience a workshop on SoulCollage® with a visiting art therapist and then participate in art therapy-based service learning that serves an adult population with disabilities.

Christine Nunez

College of Liberal Arts & Sciences | Modern Languages



Literacy Development through Bilingual Books: A Service-Learning Project

Amount Awarded: \$800

Overview: Kutztown University students will create and deliver lessons on bilingual literacy to Roberto Clemente Elementary Charter School students using original bilingual children's books created by Kutztown University faculty and students. Lessons will focus on Spanish/English comparisons and contrasts, as well as simultaneous Spanish/English literacy development. Using these original bilingual books as models, Kutztown University students will work with Roberto Clemente students to create their own bilingual books dealing with their cultural identities. This project is part of the curriculum for Spanish majors and minors focusing on Spanish language communication and the writing process. In addition to bilingual literacy development throughout the 2015-2016 academic year, there will be a culminating activity at Kutztown University, featuring local Latina author and promoter of racial justice and Latino culture, Charito Calvachi. Through this project, students will better understand their own cultural perspectives, as well as the diversity of the Latino community. Students will also develop civic awareness by meeting real needs and real world challenges in the community.

R. Todd Rober

College of Visual & Performing Arts | Music



Nani Agbeli, Ghanaian Drummer Residency and Master Classes

Amount Awarded: \$800

Overview: Funding will help bring Nani Agbeli, a noted drummer and dancer from Ghana, to campus to work with the African Percussion Ensemble to prepare for a public concert. Mr. Agbeli will also offer more general master classes for all percussion students and other interested students on campus. The week-long residency takes place in March 2016 with Mr. Agbeli teaching the ensemble during regular class sessions, additional special rehearsals, rehearsals to teach traditional dances, and individual private lessons with students to learn advanced techniques for master drum parts. Mr. Agbeli will also lecture to other classes on campus on the culture of Ghana. Born into a family of prominent dancers and drummers from the Ewe ethnic group, Mr. Agbeli was trained by his father, the late Godwin K. Agbeli, and studied with artists at the National Arts Center in Accra. He is currently a faculty member at California Institute of the Arts.

Nicole Romanski

College of Visual & Performing Arts | Art Education & Crafts

Peg Speirs

College of Visual & Performing Arts | Art Education & Crafts



Creating Art on iPads in the Elementary Classroom

Amount Awarded: \$800

Overview: On Friday, November 21st over forty Art Education students attended a workshop with Tricia Fuglestad as part of the 77th annual Kutztown University Art Education Conference. Tricia is a K-5 elementary art teacher at Dryden Elementary School in Illinois with a master in K-12 technology integration. She has been recognized for her innovative teaching in 2010 with the PBS Teachers Innovation Award, received Western Region Elementary Art Teacher of the Year 2013, and many other recognitions. At the workshop, our Kutztown University students were introduced to a variety of iPad applications where students explored animation, drawing with layers, and entering artwork via green screen techniques. All of the applications that Tricia demonstrated during the workshop have been purchased on the iPads as an initiative to continue developing technology based curriculum in the elementary art methods course this upcoming spring.



Terre Sychterz

College of Education | Elementary Education

Kevin McCloskey

College of Visual & Performing Arts | Communication Design

Kutztown University Children's Literature Conference

Amount Awarded: \$800

Overview: The Sesquicentennial Academic Grant provided funding to bring Jonathan Bean, author and illustrator to Kutztown University for the Eighteenth Annual Kutztown University Children's Literature Conference April 15, 2016. The purpose of the Kutztown University Children's Literature Conference is to heighten knowledge and excitement about children's literature for education, library science, communication and design, and art majors by bringing renowned authors/illustrators to campus. The focus of this grant is two presentations by Jonathan Bean consisting of a morning meeting with design classes and art classes on campus and the Kutztown University Community Presentation in the afternoon. Jonathan Bean's visit to the design and art classes on campus celebrates the art and illustration techniques of an award-winning author and illustrator. Visiting artists impart valuable artistic techniques and inspiration to aspiring authors and illustrators. The Community Presentation on Friday afternoon is offered free of charge to the entire campus and is part of the capstone experience for student teachers and professional semester students. Jonathan Bean is one of three presenters who will speak to the Kutztown University community.



Kutztown University Research Committee Funding

The Kutztown University Research Committee provides funding to support research, scholarly activity and professional development. The maximum award is \$8,000.



Michele Baranczyk

College of Liberal Arts & Sciences | Psychology

Perceptions of Organizational Benefits

Amount Awarded: \$1,050

Overview: The project's purpose is to empirically examine three research questions: First, are generational differences apparent in the preferred benefits of employees? Secondly, how do employees conceptualize "workplace flexibility?" Finally, will framing the same benefits as "family friendly" versus "flexible" have an impact on employee perceptions of the organization?

The project utilizes both qualitative and quantitative research methods to address these questions. Open-ended survey responses are used to examine what benefits employees find most useful, as well as comparing these desired benefits to generational differences. An experimental manipulation is used to examine whether framing benefits as family-friendly or flexible results in a higher applicant attraction to the organization. Results of this research can be used to help organizations recruit potential employees.



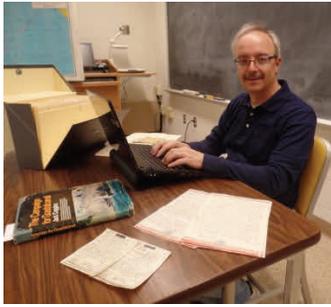
Kunal Das

College of Liberal Arts & Sciences | Physical Sciences

Studying Differential Geometry with Ultracold Atoms

Amount Awarded: \$5,550

Overview: Differential Geometry, which is the marriage of geometry and calculus, underlies almost all of fundamental physics, from gauge field theories that describe elementary particles to general relativity that describes the large scale structure of the universe. However, its direct influence is hard to examine and study at intermediate scales where much of practical physics is done. The research will find ways to implement concepts and models from differential geometry with systems of ultracold atoms (cooled almost to absolute zero), which will enable the study of relevant and important geometrical models in a very versatile and flexible system, directly accessible in the laboratory, which can thereby provide insights relevant for all of physics.



Michael Gabriel

College of Liberal Arts & Sciences | History

Transcribing and Editing World War II Letters from the South Pacific

Amount Awarded: \$1,583

Overview: Funding will be used to conduct research to support the transcription and editing of approximately three hundred letters from a physician to his family during the Second World War. These letters span his military career, starting in 1942, with the majority covering the period from January 1944 to December 1945. During this time he served as captain in the 39th Station Hospital, an army medical unit stationed on Guadalcanal, Angaur, and Saipan. The letters include a wide range of topics such as everyday life, a Bob Hope USO show, the death of Franklin Delano Roosevelt, the end of the war in Europe, and growing frustration with the slow return of troops from the Pacific. They also contain many photographs, which add another dimension to the text. Taken as a whole, the letters provide a view of the Pacific War that has not been examined in any depth previously.

Daniel Haxall

College of Visual & Performing Arts | Fine Arts

Rethinking Abstract Expressionist Collage

Amount Awarded: \$5,545

Overview: This grant will support archival research towards the completion of a book. *Cut and Paste Abstraction: Rethinking Abstract Expressionist Collage* presents the first in-depth study of collage in the era of Abstract Expressionism, a period that corresponds to the 1940s and 1950s.

In 1943, the first large-scale exhibition of collage was staged in the United States. This show introduced many Americans to the medium and inaugurated a collage renaissance over the following two decades. In particular, the Abstract Expressionists produced a diverse body of work ranging from small compositions of handmade paper to mural-sized creations of torn and reassembled canvas. In unique ways, their emphasis on abstraction, painterly conventions, and fine arts materials revised the attributes that previously typified collage. The medium retained its capacity for social critique, aesthetic invention, and expressive subjectivity, yet the approach of the Abstract Expressionists challenged the trajectory and representational emphasis of collage. This book features a concentrated look at six major collagists and the critical discourse surrounding the medium at mid-century, enriching scholarship on abstraction, collage, and modernism in America.



Khori Newlander

College Liberal Arts & Sciences | Anthropology & Sociology

The Archaeology of Industrialization in Northeast Pennsylvania**Amount Awarded:** \$8,000

Overview: Over the last 200 years, the United States was transformed from a mostly rural and agricultural society to a largely urban and industrial society. Historical studies of this period of dramatic socioeconomic transformation commonly focus on the lives of famous people, leaving the stories of ordinary men and women untold. This project seeks to tell the stories of the “invisible” men and women who lived and worked at Stoddartsville, a 19th-century milling village built near the headwaters of the Lehigh River. To that end, fieldwork conducted by the Kutztown University Archaeology Field School during the summer of 2015 included mapping a historic cemetery, pedestrian survey, geophysical survey, and excavations in the general store and workers’ cottages. Currently, several students are analyzing the pottery, nails, glass, and other artifacts recovered in order to reconstruct everyday life at Stoddartsville and, in turn, document the cultural changes that accompanied this early attempt to bring industry to northeast Pennsylvania.



Adrienne Oakley

College of Liberal Arts & Sciences | Physical Sciences



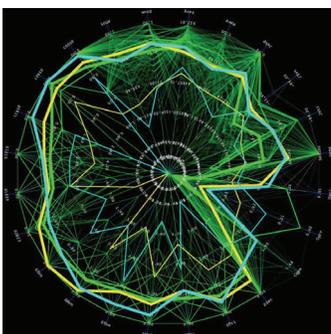
Investigating the Effects of Sea Level Rise and Environmental Change along Barrier Islands and Salt Marshes of the Southern Delmarva Peninsula

Amount Awarded: \$7,996

Overview: Salt marshes and barrier islands are the first line of defense protecting the mainland coast from storms and the effects of sea level rise (flooding, erosion, salt water contamination); however, these coastal zones are extremely vulnerable. In order to create resilient coastal communities, restore salt marshes, and protect infrastructure on barrier islands, we must understand both the current conditions along the shoreline and the underlying geologic history of the region. For this project Dr. Oakley and her undergraduate students will collect, process, and analyze local, high-quality datasets from salt marshes and barrier islands of the southern Delmarva Peninsula in order to investigate the effects of sea level rise and environmental change on these regions. This project will provide a model for information of bay promontory salt marshes along the mainland coast of Chincoteague Bay and inform ongoing salt marsh restoration projects. The researchers will also continue to monitor the movement of sediment along the Wallops Island shoreline and share findings with NASA.

Dale Parson

College of Liberal Arts & Sciences | Computer Science & Information Technology



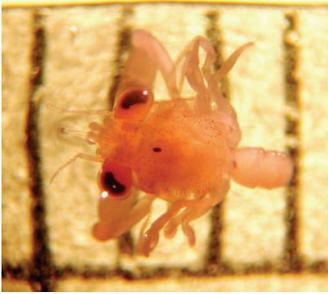
Visualization and Sonification of Data in a Planetarium

Amount Awarded: \$7,186

Overview: Computer visualization of data from a problem domain is a growing area of computer science research. Computer sonification of data is a newer area. These activities seek to map features of multidimensional datasets in problem domains being analyzed to visual and aural projections, respectively, in order to engage the cognitive systems of data analysts in finding relationships that are otherwise difficult to detect using strictly numeric and symbolic approaches. The proposed research seeks to extend the state of the art in these two approaches in two ways. First, it will investigate bidirectional mappings between the visual and aural domains in order to engage both cognitive systems simultaneously. Second, it will investigate the use of a planetarium's space, digital projector and surround system for exploring complex data relationships interactively. Anticipated results will be useful across a wide range of analysis domains.

Wendy Ryan

College of Liberal Arts & Sciences | Biological Sciences



A Novel Microrespirometer: Assessing the Energetics of Marine Zooplankton at High Pressures

Amount Awarded: \$5,105

Overview: Many planktonic organisms undergo diel vertical migration, moving through the water column on a 24 hour cycle. In doing so, these organisms may serve as an important conduit for energy transfer from surface waters to depths; however, there have been few actual measurements of the metabolic costs associated with these excursions. We have developed a microrespirometer that can measure the O₂ consumption of these tiny animals, allowing us to directly measure their metabolic rate. This grant supports taking the microrespirometer to our field station in Wallops Island, VA for five weeks to collect baseline data on the metabolic responses of diverse taxa of zooplankton to changes in both temperature and hydrostatic pressure. The preliminary results of the first field season will be presented at regional and national meetings by Dr. Ryan and the two undergraduate students collaborating on this project.

Laura Sherrod

College of Liberal Arts & Sciences | Physical Sciences



Investigations of the Shape and Structure of a Buried Bedrock Valley in New York State

Amount Awarded: \$5,728

Overview: Glacial landscapes in New York State conceal the undulating nature of the subsurface bedrock. Bedrock valleys and ridges, hidden beneath surficial glacial deposits, can strongly impact the nature of groundwater flow. Likewise these bedrock features can provide insight into the nature of the glacial history in the area. Geophysical surveying using electrical resistivity tomography and ground penetrating radar will be used to map the bedrock topography and glacial sediments at a buried bedrock valley of interest to the New York State Museum/Geological study. This work will be done by members of the geophysical research group at Kutztown University, consisting of Dr. Sherrod and four undergraduate students. The results will provide a three dimensional image of the subsurface glacial geology that will elucidate groundwater flow paths and glacial history.

Edward Simpson

College of Liberal Arts & Sciences | Physical Sciences



Quicksand Trapping as a Viable Mechanism for the Accumulation of Cretaceous Utahraptors: Part 2 Hydrological Regime

Amount Awarded: \$4,400

Overview: In central Utah the spectacular discovery of 10 or more clustered *Utahraptor* dinosaur skeletons that are approximately 125 million years old, may be one of the more important dinosaur discoveries from the Utah area in the past decade or longer. The first-year's work confirms that the *Utahraptors* were trapped in a quicksand pit. The quicksand pit kill mechanism has been demonstrated and is the first documented case of such a killing mechanism in dinosaurs. Excavation of the road to remove the *Utahraptor* block has freshly exposed the underlying rocks allowing the reconstruction of the local high-pressure, artesian ground water system. The rigorous flowing water system breached the surface muds and generated the quicksand killing mechanism.

William F. Towne

College of Liberal Arts & Sciences | Biological Sciences



Is the Panoramic Skyline Profile Important in the Directional Orientation of Honey Bees?

Amount Awarded: \$4,145

Overview: Honey bees navigate very well within the familiar terrain around their nests, and they have been an important model system in studies of animal orientation. At the same time, we know surprisingly little about the features of landscapes that bees use in this context. Dr. Towne and his undergraduate research students recently uncovered suggestive evidence that the panoramic black-and-white profile of terrestrial objects against the sky is a critical directional reference for bees, but this idea had not yet been tested directly. Here, then, Dr. Towne proposed to test the hypothesis that bees learn and orient using the skyline panorama. Dr. Towne and his students constructed an artificial replica of the natural skyline around a feeder and recorded the bees' departure bearings as they left the feeder to return the hive. The artificial skyline was then rotated, predictably misdirecting the bees as they departed.



Todd J. Underwood

College of Liberal Arts & Sciences | Biological Sciences

Gregory P. Setliff

College of Liberal Arts & Sciences | Biological Sciences

Why do House Wrens Add Spider Egg Cases to Their Nests? A Test of the Ectoparasite Reduction Hypothesis

Amount Awarded: \$7,791

Overview: External parasites (i.e. ectoparasites) reduce the reproductive success of many birds. To prevent this impact, birds use behaviors to control ectoparasites on their bodies and in their nests. The most unusual behavior, known as heterospecific cleaning, involves encouraging other animal species to remove the ectoparasites. House Wrens (*Troglodytes aedon*) regularly bring spider egg cases to their nests. This behavior may represent heterospecific cleaning if juvenile spiders hatched from the egg cases feed on and reduce ectoparasites (ectoparasite reduction hypothesis). However, this hypothesis has not been tested. In addition, the spiders involved have not been identified. In this study, Drs. Underwood and Setliff will test the ectoparasite reduction hypothesis by comparing the number of ectoparasites to the number of spider egg cases and juvenile spiders found in House Wren nests. They also will identify the species of juvenile spiders found in House Wrens using a DNA-barcoding technique because juvenile spiders cannot be identified using traditional methods. The study will help to determine why House Wrens collect and add spider egg cases to their nests.



Kutztown University Research Committee Facts

The Research Committee awarded \$64,079 in grants to 13 faculty members (12 awards). Research was funded in the following disciplines: psychology, physics, fine arts, anthropology, geology, history, computer science, biology, and geophysics.

	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015
Received	17	14	28	19	28	21
Awarded	14	12	21	17	20	12
Total Requested	\$ 57,740	\$ 68,676	\$ 178,596	\$ 100,940	\$ 144,454	\$ 111,044
Total Awarded¹	\$ 54,069	\$ 51,860	\$ 86,266	\$ 82,421	\$ 87,236	\$ 64,079
Annual Funding Available	\$ 50,783	\$ 50,783	\$ 75,783	\$ 75,783	\$ 75,783	\$ 75,783

1.Total Awarded may exceed Annual Funding Available due to the return of grant funding not expended from prior awards.

Kutztown University Undergraduate Research Committee Funding

The Undergraduate Research Committee primarily supports laboratory or field research, as well as research projects in the arts, humanities, and computer science. Funding is available for undergraduate students who plan to conduct research and/or present their research at conferences or research symposiums. The committee awarded 44 students funding, for a total of \$35,691.

	SUBCOMMITTEES		TOTAL
	Science	Arts & Humanities	
Awarded	37	7	44
Total Awarded	\$ 30,295	\$ 5,396	\$ 35,691





EXTERNAL FUNDING



Darren Achey

College of Liberal Arts & Sciences | Physical Sciences

The Investigation of the Properties of Azobenzene Molecules on Titanium Dioxide Nanomaterials

Funding Source: Pennsylvania State System of Higher Education
Amount Awarded: \$7,295

Overview: Molecules have the potential to behave similarly or differently when placed in different chemical environments. In this project, the effect that attachment to a nanoparticle surface has on molecules will be studied. This research will provide fundamental insight into systems used for converting fleeting solar energy into storable chemical energy. Of particular interest is how the reactivity of these molecules is inhibited or enhanced under these conditions. This project entails discovering differences or similarities of a well-studied intramolecular reaction (a molecule reacting with itself) in fluid solution and when anchored to nanoparticles and contrasting the results with past studies of intermolecular reactions (a molecular reacting with a different molecule) under the same conditions. Combined, these results will provide a more comprehensive understanding of the role surfaces play on molecular reactivity. As many high level researchers are focused in this area, the proposed research will supplement the work done by these researchers and may provide insights to increase the efficiency on the solar energy devices these groups are creating.

Mario L. Cardozo

College of Liberal Arts and Sciences | Geography

Social-Ecological Dimensions of Smallholder Land Use and the Soy Frontier Expansion in Paraguay

Funding Source: Pennsylvania State System of Higher Education
Amount Awarded: \$6,691



Overview: The rise of soy production in Paraguay since the 1980s has seemed to exclude smallholders by not providing subsidies or financing to smallholder soy production and facilitating tax breaks to big producers. In effect, the expansion of the soy frontier in Paraguay has economically and physically displaced many peasant communities. Based on interviews and discussion groups held at peasant and indigenous communities near a nature reserve in eastern Paraguay, this research has found both favorable and opposing smallholder attitudes towards broad-scale soy production.

(Mario Cardozo continued)

Smallholders decrying soy point strongly at environmental justice issues linked to agrochemical pollution and a development model that allegedly seeks to eradicate smallholding through the mechanization of the rural landscape. In contrast, some smallholder communities have found ways to profit from the export soy industry. Some smallholders consulted reported legally integrating soy cropping led by medium-scale producers. Others confessed they illegally lease their lands to big soy producers in the region. While these accounts challenge simplistic big-soy/smallholder binaries, they also seem to highlight the deficiencies of weak governance linked to neoliberal economies in developing regions.



Andrew Corsa

College of Liberal Arts & Sciences | Philosophy

Thoreau Performance, Multimedia Learning

Funding Source: Kutztown University Foundation

Amount Awarded: \$4,820

Overview: The grant brought theater artist Bill George to Kutztown University for one-time special event. Mr. George performed his one-man; two act theatrical adaptation of Henry David Thoreau's *Walden*. The performance was open broadly to the university community. Mr. George also performed twenty-minute excerpts of his work in classrooms for several courses. After each of the small performances, he participated in a question and answer session. When students see and hear Mr. George's adaption of *Walden*, they achieve an even deeper understanding of the work, and will better appreciate Thoreau and his philosophy.

Francis Cortez Funk

Academic & Student Affairs | Health & Wellness Services

Dolores Hess

Academic & Student Affairs | Health & Wellness Services

Pennsylvania Liquor Control Board Grant to Reduce Underage and Dangerous Drinking

Funding Source: Pennsylvania Liquor Control Board

Amount Awarded: \$40,000



continued

(Francis Cortez Funk continued)

Overview: The project aims to reduce underage and dangerous drinking behaviors that occur in the Kutztown community. This will be done by using evidence-informed strategies. All first-year students will participate in a web-based program, AlcoholEDU for College. Data collected will be used in Social Norms Campaigns that will educate the campus community by using normative data to decrease the stigma of underage drinking and harmful behaviors. Additionally, this project will be working with the President's Roundtable on Alcohol & Other Drugs in building a sustainable coalition model using the Hub & Spoke. The aim is to lower the self-reported underage access to alcohol in off-campus settings by 2.5%. Furthermore, the project aims to increase the nonuse of underage drinking by 2.0%.



Gail Craig

Academic & Student Affairs | Academic Enrichment

Student Support Services Program (SSSP)

Funding Source: U.S. Department of Education

Amount Awarded: \$292,345

Overview: Students with motivation and the potential to succeed in college are given support to help realize their academic, personal, and career goals. Eligible students must be first-generation or learning disabled and meet certain academic and economic criteria.

SSSP provides students with opportunities for academic development, assists them with college requirements, and motivates them toward the successful completion of their postsecondary education. The program provides academic tutoring, advice and assistance in postsecondary course selection, assistance with information on obtaining financial aid, education to improve financial and economic literacy, and assistance in applying for admission to graduate and professional programs.

As a comprehensive academic support program, SSSP is dedicated to excellence and to the success of its diverse community of students. Through intrusive advisement, counseling, tutoring, learning communities, mentoring, support groups, and cultural activities, the program helps prepare its students “to meet lifelong intellectual, ethical, and career challenges.”

Rose DeSiano Galjanic

College of Visual & Performing Arts | Fine Arts



Historic Scenes of Heroism

Funding Source: Pennsylvania State System of Higher Education

Amount Awarded: \$6,000

Overview: After conducting research on etchings made from photographs appearing in late 19th century newspapers, Professor DeSiano Galjanic will produce twenty traditional photogravure prints whose compositions are created by digitally merging and manipulating her original photographs of battle scenes taken at US-based WWII and Vietnam War reenactments. Her photographs of 'staged war' call into question contemporary issues of military culture, as well as the problematic role of photography in distorting world events. DeSiano has elected to use this historic alternative processes as a way of referencing the origins of photojournalism and what she perceives as being the beginning of photo manipulation. The artworks from this series will be exhibited in a solo exhibition in early 2016, and the research will result in a lecture presentation and paper on the influences of early 1900s newspaper etchings on contemporary digital photo manipulation practices.

Janice Gasker

College of Liberal Arts & Sciences | Social Work



Building Community Collaboration in New Program Start-Up: Creating a Community-Based Advisory Board for the Doctor of Social Work Program

Funding Source: PASSHE Foundation, Inc.

Amount Awarded: \$15,000

Overview: The Kutztown University/Millersville University Doctor of Social Work (DSW) is a unique, community-need-driven program that prepares students for leadership and education positions in agencies and higher education. In order to be responsive to the changing needs of the community, it is critical that the program receive ongoing feedback from key constituents. A sustainable group of community-based professionals from healthcare, child welfare, gerontology, and higher education who are positioned to provide feedback for the program's development and ongoing implementation has been identified. With the help of the grant, these selected professionals were introduced to the program via individual interviews and at a dinner meeting to gain their commitment to serve on an advisory board, including participating in regular meetings, providing feedback, and facilitating recruitment.

Thomas Green

Administration & Finance | Facilities



LED Lighting Replacements for the University Tennis Courts and the O’Pake Fieldhouse

Funding Source: Berks County Community Foundation

Amount Awarded: \$35,000

Overview: As one of Kutztown University’s many sustainability initiatives, this two part project will result in the replacement of twenty seven 400 watt metal halide light fixtures with the same amount of 150 watt LED fixtures, and the replacement of nine hundred and sixty 36 watt florescent lamps with the same amount of 16 watt LED lamps. In addition to the electrical consumption savings of 100,000 kWhs/year and improved illumination, there will be a significant reduction in the maintenance costs to repair or replace lamps and ballasts in fixtures which are 20 and 30 feet high. The life of an LED lamp far exceeds the life of florescent and metal halide lamps.

Randy Kaplan, PI

Lisa Frye, Co-PI

Dale Parson, Co-PI

College of Liberal Arts & Sciences | Computer Science & Information Technology

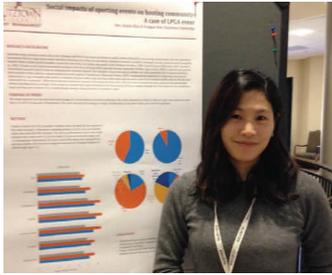


The Computer Science Academic, Retention, and Enrichment Program (CARE)

Funding Source: National Science Foundation

Amount Awarded: \$614,375

Overview: CARE is a program to provide support and encouragement to the underserved populations in computer science. These populations tend to not enroll in computer science because historically they do not see computer science as a program of study as an option for them. CARE hopes to encourage students into the computer science field by providing a scholarship grant for students at \$7,800 per year for each year they are in the computer science program at Kutztown University. CARE also provides many activities that support grant scholars to successfully complete the program in computer science. Support includes membership in a learning community; faculty, student peer, and industry mentors; and monitoring of program progress and performance. Activities include brown bag lunches, seminars, and trips for the scholars. As the scholars progress through their studies they will take on responsibilities of the scholarship like serving as a peer mentor.



Soojin Kim

College of Business | Sport Management & Leadership Studies

Yongjae Kim

College of Business | Sport Management & Leadership Studies

Effects of Sporting Events on Hosting Community

Funding Source: Kutztown University Foundation

Amount Awarded: \$4,263

Overview: Despite social impacts potentially having an even more profound effect upon the hosting community (Fredline, Jago, & Deery, 2002), to date the vast majority of academic research tend to focus on evaluating the economic impacts. Due to lack of a reliable and valid assessment tool, social impacts have been a neglected area. This study contributes to this line of inquiry by assessing the impact of the 2015 LPGA U.S. Women's event in Lancaster, PA. Residents' perceptions of impacts were measured by using a pre- and post-design. Overall, residents' perceptions of impacts have changed over time. The most highly perceived benefits in the pre- and post- test were cultural and image benefits. Effects of event involvement on host community images were evident among respondents who were aware of the event, but not among respondents who were not aware. The findings provide practical and managerial implications. Results suggest that developing a strategy of maximizing positive and minimizing negative impacts might be beneficial for obtaining social leverage.

Tabetha Bernstein-Danis

College of Education | Special Education

Yoon Mi Kim

College of Liberal Arts & Sciences | Social Work

Interdisciplinary Learning and Collaborative Research among Kutztown University Undergraduate Students in Social Work and Special Education

Funding Source: Kutztown University Foundation

Amount Awarded: \$2,400

Overview: Funding will be used to engage a group of undergraduate students in researching the home literacy and numeracy practices and acculturation experiences of Latino immigrant mothers. This is an interdisciplinary community-based project that joins area community centers and

continued

(Tabetha Bernstein-Danis continued)

organizations with the social work and special education departments at Kutztown University to engage in research on local Latino immigrant families and provide a collaborative learning experience for undergraduate students entering both fields. The body of literature suggests that a failure to honor, acknowledge, and build on home educational practices that differ from those of the mainstream American culture contributes to the disproportionate number of minority students receiving special education services. The purpose of this project is to provide Kutztown University undergraduate students with a community-based research opportunity to develop an understanding of the acculturation experiences of Latino immigrant mothers, how those experiences impact education, and to explore the home literacy and numeracy practices that may not otherwise be recognized by professionals who too often view immigrant families from a deficit perspective. This research will benefit the Kutztown University community by bringing together two fields—special education and social work—that are related but often experience very little collaboration. The study will also benefit the Berks County community by providing insights into the funds of knowledge of immigrant families in the area, better enabling professionals in the fields of social work and education to honor and build on these practices.

Eric Landquist

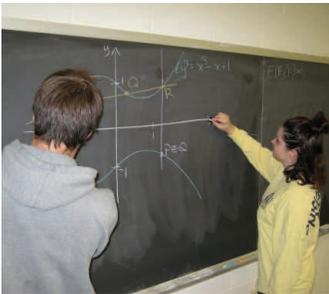
College of Liberal Arts & Sciences | Mathematics

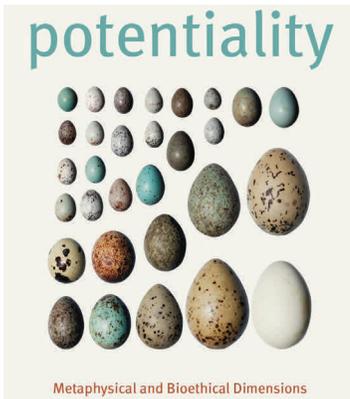
Development of an Inquiry-Based Learning Course in Cryptography

Funding Source: Educational Advancement Foundation

Amount Awarded: \$2,500

Overview: Cryptography is the study of securing communication and information and applies many different branches of mathematics. This grant supported the creation of MAT 337: Introduction to Cryptography and specifically for it to be taught using an Inquiry-Based Learning (IBL) format. The IBL format shifts the focus of the class from the instructor as the "sage on the stage" to the "guide on the side." As such, the instructor spends less time lecturing than in a typical lecture-based course. Instead, students spend much of class time working through notes, solving problems, and presenting their results to their peers. This course will be offered for the first time in Spring 2016. Students will learn about the historical and practical aspects of cryptography, but will focus mainly on the underlying mathematics, algorithms, and protocols that solve important cryptographic problems. Many of the in-class activities involve code writing and code breaking, making the course particularly attractive for those that love to solve puzzles. The course is also designed to give students a review and preview of a significant portion of their overall curriculum.





John P. Lizza

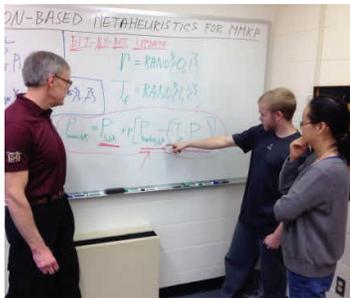
College of Liberal Arts & Sciences | Philosophy

Potentiality and Bioethics

Funding Source: Pennsylvania State System of Higher Education

Amount Awarded: \$4,907

Overview: The aim of this project is the publication of a book on the nature of potentiality and how the concept of potentiality can be used in the evaluation of the moral status of human embryos, human stem cells, anencephalics, individuals in persistent vegetative state, and the whole-brain dead. The work is particularly relevant to ethical issues concerning abortion, withdrawing and withholding life support, euthanasia, the determination of death, and organ donation. It should be of interest to anyone with interest in the meaning and criteria of human life and death, including the general public, bioethicists, philosophers, health care professionals, and hospital and governmental committees that advise on policy and law concerning issues at the beginning and end of life.



Yun Lu

College of Liberal Arts & Sciences | Mathematics

Francis Vasko

College of Liberal Arts & Sciences | Mathematics

Nature Inspired Population-Based Metaheuristic for Hard Combinational Optimization Problems

Funding Source: Pennsylvania State System of Higher Education

Amount Awarded: \$7,000

Overview: In applied mathematics and theoretical computer science, combinatorial optimization is a topic that consists of finding an optimal object from a finite discrete set of objects, which has important applications in many fields, including artificial intelligence, machine learning, mathematics, and software engineering. A combinatorial problem is called “hard” if it is NP-hard (Non-deterministic Polynomial-time hard). Many research efforts have been focused on the development of metaheuristics to find good or near-optimal solutions within a reasonable period of time for these problems. In particular, algorithms imitating the processes in nature have been developed in the last two decades, including genetic algorithms, Ant Colony Optimization, and Teacher-Learner-Based Optimization.

In this project, the hybrid of various nature-inspired population-based

continued

(Yun Lu continued)

metaheuristics for hard combinatorial optimization problems will be investigated, improved, and carefully applied to solve various hard combinatorial optimization problems including multiple-choice multidimensional knapsack problem (MMKP) and others. The effectiveness and efficiency of the hybrid metaheuristics developed will be tested on various benchmark testing problems. Furthermore, their performance will be analyzed and compared with those of well-known nature-inspired population based metaheuristics.

Magdalena Monet

Academic & Student Affairs | College Readiness Programs



Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP)

Funding Source: U.S. Department of Education

Amount Awarded: \$117,809

Overview: The Pennsylvania State GEAR UP grant is designed to increase the number of low-income students who are prepared to enter and succeed in postsecondary education. This seven-year grant replicates a research-based collective impact model to address the college access needs of its students and families, and includes early intervention strategies as well as a scholarship component. Kutztown University has partnered with the Allentown School District to provide college readiness services for their entire class of 2020 which is comprised of approximately 1,250 8th grade students.

In the first year of the grant, rising 8th grade GEAR UP students had the opportunity to visit Kutztown University to participate in one-day experimental summer learning camps focused on topics such as art and biology, and how to succeed as a student-athlete. As the GEAR UP students advance into high school they will have the chance to live on campus and participate in multiple-day college and career readiness programs.

Khori Newlander

College of Liberal Arts & Sciences | Anthropology & Sociology



The Archaeology of Industrialization in Northeast Pennsylvania

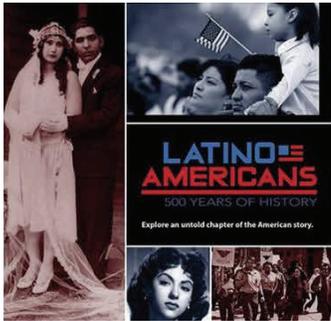
Funding Source: Pennsylvania State System of Higher Education

Amount Awarded: \$8,650

Overview: Over the last 200 years, the United States was transformed from a mostly rural and agricultural society to a largely urban and industrial society. Historical studies of this period of dramatic socioeconomic

(Khorl Newlander continued)

transformation commonly focus on the lives of famous people, leaving the stories of ordinary men and women untold. This project seeks to tell the stories of the “invisible” men and women who lived and worked at Stoddartsville, a 19th Century industrial village built at the headwaters of the Lehigh River. Archaeological research at working and domestic sites at Stoddartsville will document the cultural changes that accompanied early attempts to bring industry to northeast Pennsylvania.



Christine Nunez

College of Liberal Arts & Sciences | Modern Languages

Bruce Jensen

Academic & Students Affairs | Library Services

Latino Americans: 500 Years of History

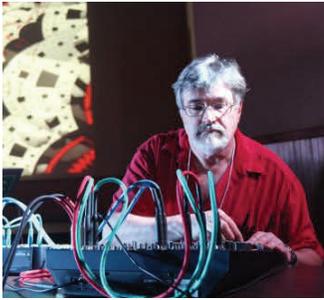
Funding Source: National Endowment for the Humanities

Awarded Amount: \$3,000

Overview: Kutztown University, along with more than 200 grantees across the country, received a grant from the National Endowment for the Humanities and the American Library Association titled “*Latino Americans: 500 Years of History*.” The project is a nationwide public programming initiative that supports the exploration of the rich and varied history and experiences of Latinos, who have helped shape the United States over the last five centuries. Kutztown University events held throughout the 2015-2016 academic year include screening and discussion of the PBS series “The Latino Americans,” panel discussions with immigration experts, Latino dance and music performances, and reflective group activities exploring cross-cultural identities and perspectives. Community outreach related to this project, including the involvement of Latino K-12 students at all events, will strengthen the ties between Kutztown University and the community, and create a supportive environment for Latino students and community members.

“Every people has a past, but the dignity of a history comes when a community of scholars devotes itself to chronicling and studying that past.”

-Senia Sotomayor



Dale Parson

College of Liberal Arts & Sciences | Computer Science & Information Technology

Synchronized Visualization and Sonification of Multidimensional Datasets

Funding Source: Pennsylvania State System of Higher Education
Amount Awarded: \$5,400

Overview: Computer visualization and sonification of data are two areas of practice and research in computer science. Visualization translates properties and relationships within datasets into graphical images, and sonification translates them into sequences of sounds. The main goal of these techniques is to engage the visual and auditory cognitive systems of data analysts in recognizing patterns in the properties and relationships of data that are hard to recognize using symbolic and numeric techniques. The proposed research will extend the state of the art in two ways. First, it will investigate simultaneous, synchronized visualization and sonification in order to engage both cognitive systems together, thereby leveraging their interaction in recognizing patterns. Second, it will investigate using the large, hemispheric properties of a planetarium and its surround sound system to explore cyclic data relationships. Outcomes include new software tools, new mappings between visualization and sonification, and reports to peers in the discipline.

Ernie Post

College of Business | Small Business Development Center

Small Business Administration Core SBDC Funding

Funding Source: U.S. Small Business Administration
Amount Awarded: \$369,284

Overview: The Kutztown University Small Business Development Center provides services to small businesses in Berks, Chester, Dauphin, Lancaster and Lebanon counties.

The program focuses on activities to strengthen the small business community by providing consulting, educational and informational services to entrepreneurs and small business owners through all phases of business development.

Areas of assistance include: 1) assistance in international business, including referrals to other SBDCs, and federal, state and local agencies; 2) activities to emphasize minority and women enterprise development; and



(Ernie Post continued)

3) maintain working relationships with the local business and financial community, as well as economic development organizations, technical assistance providers and government agencies.

Procurement Technical Assistance Center

Funding Source: U.S. Department of Defense

Amount Awarded: \$70,000

Overview: Federal, state, and local governments purchase billions of dollars of goods and services every year. Federal purchasing offices are often required to set aside contracts or portions of contracts for exclusive bidding by small and/or minority-owned businesses. In addition, major prime contractors are required to subcontract part of their work out to small firms. The Procurement Technical Assistance Center (PTAC) helps businesses of all sizes market to the government – federal, state and local. Businesses interested in government contracting and needing assistance can talk to a PTAC counselor to learn how to explore the government arena for possible market opportunities.

Procurement Technical Assistance Center (Latino Program)

Funding Source: U.S. Department of Defense

Amount Awarded: \$65,000

Overview: Federal, state, and local governments purchase billions of dollars of goods and services every year. Through the Kutztown University Latino Business Resource Center, the SE PTAC program and the Latino Chambers representing Berks County, Lehigh Valley and Philadelphia, the project will develop bilingual online learning programs, hold a government procurement networking/seminar for Latino entrepreneurs, and develop bilingual marketing materials, website landing page and resource materials that can be used in subsequent years to better serve the Latino business community. These materials will be bilingual and culturally sensitive to the major Central and South American countries represented in the Southeast Pennsylvania region.

State SBDC Core Funding

Funding Source: Pennsylvania Department of Community & Economic Development

Amount Awarded: \$345,903

Overview: The Kutztown University Small Business Development Center provides services to small businesses in Berks, Chester, Dauphin, Lancaster and Lebanon counties. The program focuses on activities to strengthen the small business community by providing consulting, educational and informational services to entrepreneurs and small business owners through all phases of business development.

(Ernie Post continued)

Latino Business Resource Center

Funding Source: National Penn Bank

Amount Awarded: \$50,000

Overview: The Latino Business Resource Center (LBRC) was established with the goal of helping Latino entrepreneurs start, grow and flourish by building the capacity of economic development organizations and by providing Latino entrepreneurs with business consulting, education, research and business tools. Services offered by the LBRC are free of charge for the end user.

Jump Start Incubator (NAP Program)

Funding Source: Pennsylvania Department of Community & Economic Development

Amount Awarded: \$72,000

Overview: The purpose of this project is to promote diverse entrepreneurship within Reading, PA, by expanding bilingual training education and consulting to Hispanic entrepreneurs and other diverse populations who are identified as having high potential for being successful entrepreneurs. The Jump Start Incubator addresses the problems of the low rate of business startups from minorities and the slow rate of growth among the existing minority businesses in the city.

This corporate tax credit program allows private sector firms to contribute funding to the Jump Start Incubator and the Kutztown University Latino Business Resource Center diversity program. The program allows the private firms to take advantage of a 75% Pennsylvania tax credit.

Nonprofit Executive Leadership Program

Funding Source: Berks County Community Foundation

Amount Awarded: \$14,282

Overview: The Kutztown University SBDC will manage the Berks County Community Foundation's (BCCF) nonprofit leadership program. This program consists of a fellows program that is comprised of an executive training program that includes a two-day executive retreat, and a one-week nonprofit management course at Harvard, Rutgers, Michigan, or Stanford University. The other Executive Leadership component is comprised of between 7 to 9 workshops with local speakers about special topics for nonprofit executives.

(Ernie Post continued)

Micro-Enterprise Assistance Program

Funding Source: City of Reading

Amount Awarded: \$100,000

Overview: This program targets both established entrepreneurs within the Downtown Improvement District (DID) and nascent entrepreneurs residing within the city who are identified as having a high potential of being successful entrepreneurs and who meet the HUD low-to-moderate household income guidelines. Goals include: 1) Increase the capacity of existing entrepreneurs to expand in the downtown corridor; 2) Increase the number of eligible clients to start new businesses; 3) Increase the level of customer service and customer experiences; 4) Create a digital presence to attract customers; and 5) Increase awareness and participation in government contract opportunities.



SBA Growth Accelerator

Funding Source: U.S. Small Business Administration

Amount Awarded: \$50,000

Overview: \$50,000 was awarded by the SBA to the SBDC to offer customized training to ten food manufacturing companies of the Greater Reading area to help them scale more efficiently. Ten minority and/or women owned companies will be selected with sales above \$50,000. Participants will receive training in innovation and creativity in the food industry, product development technology trends, packaging and labeling, package design, trade shows, nutrition, international trade, and wholesale distribution.

The Workforce and Economic Development Network of Pennsylvania (WEDnetPA)

Funding Source: Pennsylvania Department of Community & Economic Development

Amount Awarded: \$193,536

Overview: WEDnetPA brings training funds to qualified companies across the Commonwealth through a network of community colleges, state system universities, and other educational institutions.

(Ernie Post continued)

Jobs 1st PA Regional Partnership (South Central Region)

Funding Source: Pennsylvania Department of Community & Economic Development

Amount Awarded: \$5,000

Overview: The region to be served by the grant is South Central Pennsylvania, which consists of the counties of Adams, Cumberland, Dauphin, Franklin, Lancaster, Lebanon, Perry, and York. The participating organizations will develop and establish collaborative, ongoing sustainable integrations of the programs, services and initiatives of each organization to address the integration of workforce and economic development to assist companies that are expanding or experiencing a workforce shortage. Also, they will be providing for consistent articulation of the labor market, and focusing education and training in response to specific needs not met elsewhere.

Jobs 1st PA Regional Partnership (Southeast Region)

Funding Source: Pennsylvania Department of Community & Economic Development

Amount Awarded: \$30,043

Overview: The five counties of Southeast PA have substantial long term unemployed and under-employed populations. The SBDC programs for entrepreneurs serve the full range of entrepreneurs, including underserved populations, but are not specifically tailored to the un- and under-employed populations.

Discovered and Developed in PA (D2PA Southeast Region)

Funding Source: Pennsylvania Department of Community & Economic Development

Amount Awarded: \$4,000

Overview: This project was to leverage and strengthen the collaboration established by PREP in Southeast Pennsylvania. Activities build awareness of economic development services provided by funded and unfunded PREP partners and of other appropriate state programs to increase engagement with businesses in the region. Ultimately, the result is more thriving, innovative businesses and family-sustaining jobs in Southeast Pennsylvania, especially in advanced manufacturing, life sciences and other strengths of the economy.

"Scientific research is one of the most exciting and rewarding of occupations."

-Frederick Sanger





Wendy Ryan

College of Liberal Arts & Sciences | Biological Sciences

A Novel Microrespirometer: Assessing the Energetics of Marine Zooplankton at High Pressures

Funding Source: Pennsylvania State System of Higher Education
Amount Awarded: \$5,237

Overview: Many planktonic organisms undergo diel vertical migration, moving through the water column on a 24 hour cycle. In doing so, these organisms may serve as an important conduit for energy transfer from surface waters to depths; however, there have been few actual measurements of the metabolic costs associated with these excursions. We have developed a microrespirometer that can measure the O₂ consumption of these tiny animals, allowing us to directly measure their metabolic rate. This grant supports taking the microrespirometer to our field station in Wallops Island, Virginia for five weeks to collect baseline data on the metabolic responses of diverse taxa of zooplankton to changes in both temperature and hydrostatic pressure. The preliminary results of the first field season will be presented at regional and national meetings by Dr. Ryan and the two undergraduate students collaborating on this project.

Maria Sanelli

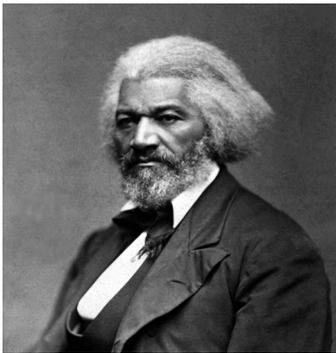
College of Liberal Arts & Sciences | History

Frederick Douglass Institute/GEAR UP Freshman Support

Funding Source: Pennsylvania State System of Higher Education
Amount Awarded: \$1,000

Overview: The Kutztown University Frederick Douglass Institute program has been identified as a conduit to provide a bridge from the GEAR UP high school experience to university life by supporting academic success of program participants through high-impact experiences that engage and motivate participants. The goal of the project is to increase the retention of students.

GEAR UP graduates attending Kutztown University will be invited to participate in a Frederick Douglass Institute Learning Community that provides opportunities for social networking with other GEAR UP graduates. There will be weekly meetings among the 20 GEAR UP scholarship participants and monthly engagement activities with all identified GEAR UP students. There will be integrated social events such as field trips, cookouts, skating parties, receptions, and encouragement for students to participate in the wider activities of the Kutztown University Frederick Douglass Institute.



Laura Sherrod

College of Liberal Arts & Sciences | Physical Sciences



Geophysical Investigation of Methane-Emitting Mud Volcanoes on the Colorado River Delta, Hite Marina, Lake Powell, Utah

Funding Source: Pennsylvania State System of Higher Education
Amount Awarded: \$10,000

Overview: Mud volcanoes in the rock record are used to interpret seismic history. Aseismic mud volcanoes in Hite, Utah were investigated with the geophysical methods of electrical resistivity tomography and ground penetrating radar by a geophysical research team from Kutztown University consisting of Dr. Sherrod and four undergraduate researchers. Data gathered at these aseismic, methane gas expulsion features were used to produce a three dimensional image of their subsurface structure to complement recent work done in this region by geologists, chemists and physicists from Kutztown University. The model created from the synthesis of the data will replace the current ambiguous and simplistic interpretation of these features and increase understanding of seismic versus aseismic features, permitting differentiation and proper recognition in the rock record. The project brought Kutztown University's undergraduate geophysical research program into modern sedimentary systems to foster interdisciplinary collaborations.

Daniel Spiegel

College of Liberal Arts & Sciences | Computer Science & Information Technology



The Carrot: Student Retention via an Incentive Based Methodology

Funding Source: Pennsylvania State System of Higher Education
Amount Awarded: \$2,000

Overview: Retention of students early in a major program is a daunting task, particularly but certainly not limited to computer science and related disciplines. At Kutztown University, students struggle in the gatekeeper course, CSc 136, mostly with programming projects. Several methods of intervention have been attempted, but they require extraordinary action on the part of the student, and have seen limited participation. A common approach to addressing students' programming project issues is permitting late submission of projects, with a penalty. The problem with this is that it

continued

(Daniel Spiegel continued)

encourages a behavior that is not acceptable in the “real” world, and precisely the opposite of what should be encouraged. Dr. Spiegel will work on tabulating, collating, and assessing data of a methodology that provides incentives to students to begin their projects as early as possible, as this has shown itself to be most effective in overcoming the significant learning curve in this course.

Peg Speirs

College of Visual & Performing Arts | Art Education & Crafts

Exploring Time Based Media: Strategies for Developing Narratives

Funding Source: Kutztown University Foundation

Amount Awarded: \$2,700

Overview: The grant supports four nationally and internationally recognized artists and educators working in time-based media to present at the Kutztown University 77th Annual Art Education & Crafts Conference. The conference is designed to bring creative applications of technology to the field of Art Education. With emerging technologies, we have new opportunities to apply curricular content in ways that expand learning styles and personal expression.

The keynote speaker, Joanna Priestley, is a distinguished artist/ animator based in Oregon. Priestley has made 26 award-winning films. Guest speaker Camilla Rockwell is a documentary filmmaker, director and producer based in Vermont who has produced multiple films. Workshop presenter Tricia Fugelstad is an art teacher at Dryden Elementary in Illinois who has been recognized with numerous awards for her innovative, inquiry-based teaching and learning activities in the classroom. Installation artist Dr. Scott Meier is a musician, scholar and Associate Dean of the Arts at Mercyhurst University in Erie, PA. His interdisciplinary work utilizes projector-mapping to design 3D video installations through manipulating multiple video streams using layers and masking.

The invited presenters will offer practical and innovative uses of technology in art as well as current trends to Kutztown University faculty, students, and conference attendees (K-12 art teachers). Participants will benefit from viewing presentations and participating in hands-on sessions that would allow participants to reflect and explore more deeply the exciting possibilities that technology can provide.





Valerie Trollinger

College of Visual & Performing Arts | Music

Hearing Loss in Freshmen Music Majors and the Relationship to Academic Achievement

Funding Source: Pennsylvania State System of Higher Education
Amount Awarded: \$6,685

Overview: The purpose of this study is to investigate the degree of hearing loss in freshman music majors at several universities and to see if a relationship exists between hearing loss and academic achievement in Kutztown music students. The study is longitudinal, and will take place over several years. Previous research suggests that music students suffer hearing loss when engaged in college music programs; however, our research has found that a disturbing number of students enter the program as freshmen with undiagnosed hearing issues that may be attributed to noise-induced hearing loss or sensorineural hearing loss. Our goal is to find out if this is a pervasive problem and if so, help students find needed medical help. Additionally, we expect to be able to better record the number of students entering college music programs with undiagnosed hearing impairment so guidelines may be developed to help them.



Robyn Underwood

College of Liberal Arts & Sciences | Biological Sciences

Using Organic Methods and Restricting Brood Nest Size to Improve Honey Bee Colony Health and Control Varroa Mites

Funding Source: Northeast Integrated Pest Management (IPM) Center
Amount Awarded: \$45,870

Overview: Honey bee colony health is jeopardized by a multitude of stressors, including lack of forage, agricultural and in-hive chemical use, parasites, pests, and viruses. Management practices used by beekeepers may aggravate or mitigate these stressors. Conventional management practices include the use of comb foundation, sugar syrup feed, antibiotics, and in-hive chemicals for pest control. Alternatively, organic beekeeping practices avoid the use of non-organic in-hive chemicals, non-bee collected feed, and comb foundation. This study is a side-by-side comparison of honey bee health in colonies kept using these two management practices.

In addition, a comparison of a restricted brood nest and an unrestricted

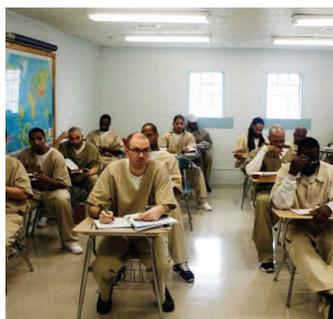
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(Robyn Underwood continued)

brood nest will be used to determine whether brood nest restriction is an effective varroa mite population control technique. Non-chemical control methods are somewhat effective in reducing levels of this destructive pest, but pesticide treatments are often still needed. Adding a cultural control method for these mites will strengthen beekeepers' IPM toolbox and facilitate a reduction in the need for in-hive chemicals and preserve the purity of hive products, such as honey and wax.

Glenn D. Walters

College of Liberal Arts & Sciences | Criminal Justice



The Worst of Both Worlds Screening Instrument (WBWSI): Reliability and Criterion Validity

Funding Source: Pennsylvania State System of Higher Education

Amount Awarded: \$3,500

Overview: The “worst of both worlds” hypothesis predicts that those with a history of prior criminality and substance misuse will experience significantly poorer future outcomes than those with a history of crime alone or those with a history of substance misuse alone. In several prior studies the “worst of both worlds” effect has been observed in male and female delinquents, male and female general population respondents, incarcerated adult male felons, and incarcerated adult female felons. The purpose of the current study is to develop, refine, and evaluate a measure of the “worst of both worlds” effect. A reliable and valid measure of this effect will provide greater flexibility in testing postulates from the “worst of both worlds” hypothesis, to include the notion that prior criminality and substance misuse combine to increase risk for future criminal- and substance-related problems. A measure of the “worst of both worlds” effect could also be of assistance in identifying evidence-based interventions for individuals exhibiting comorbid patterns of criminality and substance misuse.

Carole Wells

Academic & Student Affairs

Professional Science Masters On-line Toolkit

Funding Source: Pennsylvania State System of Higher Education

Amount Awarded: \$5,326

Overview: This funding from the Sloan Foundation is to support the transition from the committee implementation model of the original Professional



(Carole Wells continued)

Science Masters (PSM) proposal to an online PSM Toolkit for use by State System universities developing future PSM programs. The online information is an effort to institutionalize the lessons learned from the original grant and sustain the development of PSM programs.

The development of the online PSM Toolkit involved an audit of the current State System PSM website, and development of content and design for a new online PSM Toolkit to replace the current website. The new site includes an overview of PSM programs, PSM proposal development, new program submission guidelines, National Professional Science Master's Association resource materials, the guidelines for PSM program recognition, graduate student support, and links to State System-approved PSM programs.

Wing Hong Tony Wong

College of Liberal Arts & Sciences | Mathematics



Inquiry Based Learning Course: Discrete Mathematics

Funding Source: Educational Advancement Foundation

Amount Awarded: \$1,500

Overview: Inquiry Based Learning, or IBL, is a relatively new teaching methodology. In traditional lecturing style, students are expected to learn through lectures of the professors. This is a relatively passive form of learning, where students are on the receiving end of knowledge. In contrast, IBL stresses on student participation and involvement. Through finding solutions to problems that they have never encountered, students are actively seeking for knowledge, and they receive hands-on training in problem solving and critical thinking.

This grant helps with developing the teaching materials for the new course Discrete Mathematics in the IBL style. This is a general education course that explores a wide variety of topics: number theory, cryptography, combinatorics, graph theory, probability, and group theory. Discrete Mathematics provides answers to many questions, such as: 1) What is the probability of being dealt a straight flush in 5-card poker; 2) How do we protect financial information from hackers; and 3) How can we enable error-free communication with astronauts in space. This course is designed for students who like puzzles and challenges, and are willing to think outside the box.



Robin Zaremski

Communications, Marketing, & External Affairs | KU Presents!

San Jose Taiko – Demonstration, Workshop, and Master Class

Funding Source: Kutztown University Foundation
Amount Awarded: \$2,500

Overview: For over 40 years, San Jose Taiko (SJT) has mesmerized audiences with the powerful, spellbinding, and propulsive sounds of the taiko drum. Inspired by traditional Japanese drumming, SJT performers express the beauty and harmony of the human spirit through the voice of the taiko as they create new dimensions in movement and music, and attain *ki* – the unity of the mind and body. With fully choreographed, theatrical performances, SJT combines the traditional rhythms of Japan with other world rhythms, including African, Brazilian, Filipino, Latin and jazz percussion, while resonating with the Asian soul in America.

Grant Funds were used for an interactive demonstration and workshop with the elementary students from Lauer’s Park Elementary School, Reading, Pennsylvania. Students heard the history of taiko drum, the drum’s importance to the Asian culture, and its value in communication, story-telling, and spirituality. Students had the opportunity to go on stage and actually learn the art of taiko drumming and to experience the percussive power of these amazing instruments. Also a Taiko Drum master class was offered to high school music students from Twin Valley High School, Leechberg High School, and the Kutztown University student percussion ensemble. Form and motion on the taiko drums were studied and practiced with these higher level students.

Performing Artist Series 2014 – 2015 Season

Funding Source: Pennsylvania Council on the Arts
Amount Awarded: \$4,943

Overview: KU Presents! mission is to be the center of cultural life at Kutztown University and the regional community through presentations of innovative and engaging live music, theatre, and dance of the highest quality. With generous grant support from the Pennsylvania Council on the Arts (PCA), world-class artists are presented to the community, bringing thousands of patrons to Kutztown’s campus each year. The 2014-2015 season hosted record-setting TONY-award winner Audra McDonald, GRAMMY-award winning banjo player Bela Fleck and his wife, Abigail Washburn, Canadian Brass, Big Bad Voodoo Daddy, among other renown vocalists, musicians, and performers. PCA grant funds are used to help pay the costs of presenting these artists, which include artist fee, technical production, hospitality, hotel, and educational outreach expenses.

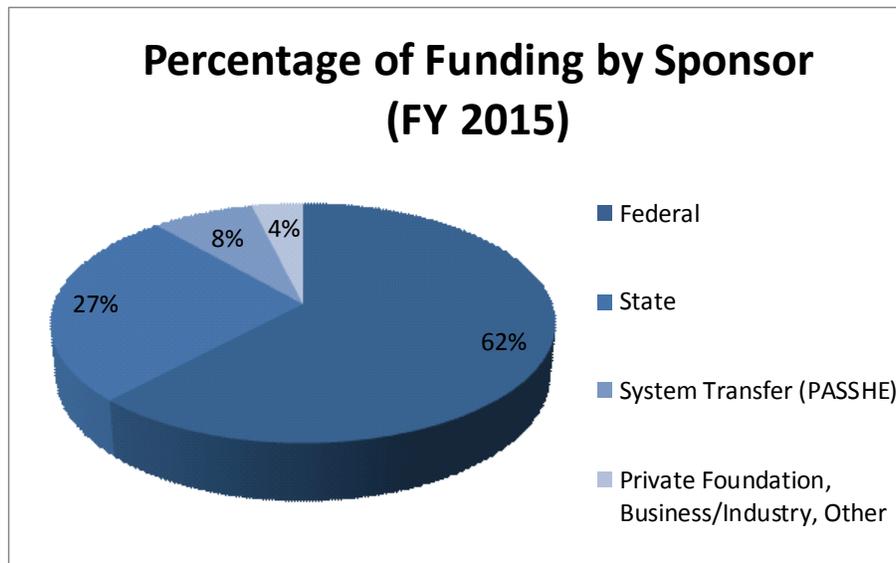
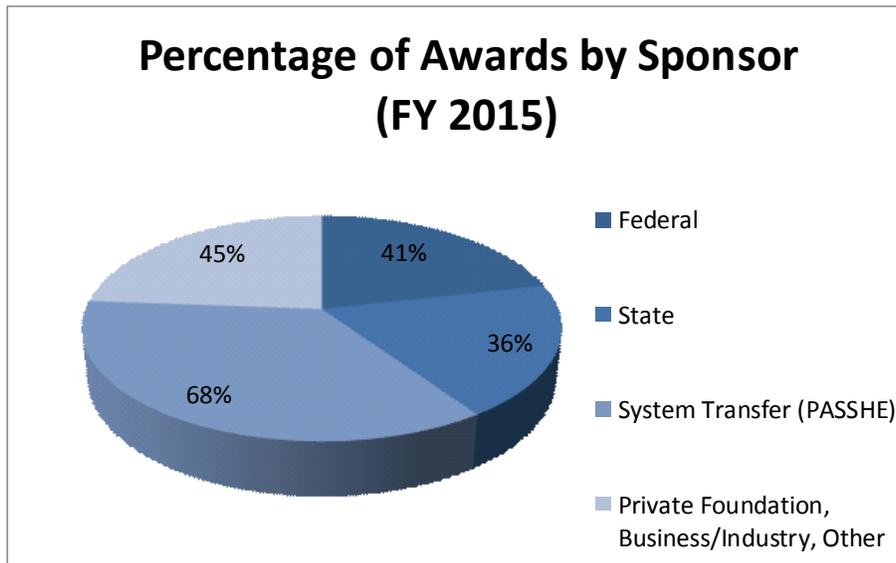
External Funding Facts and Figures

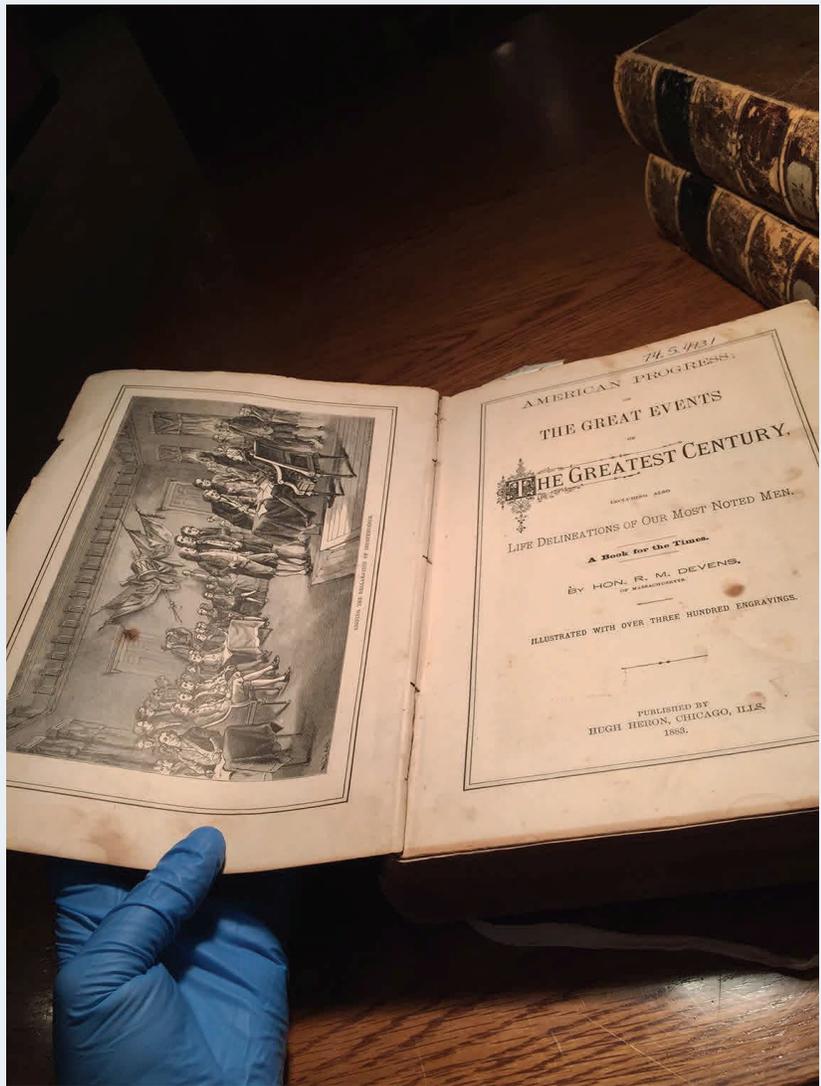
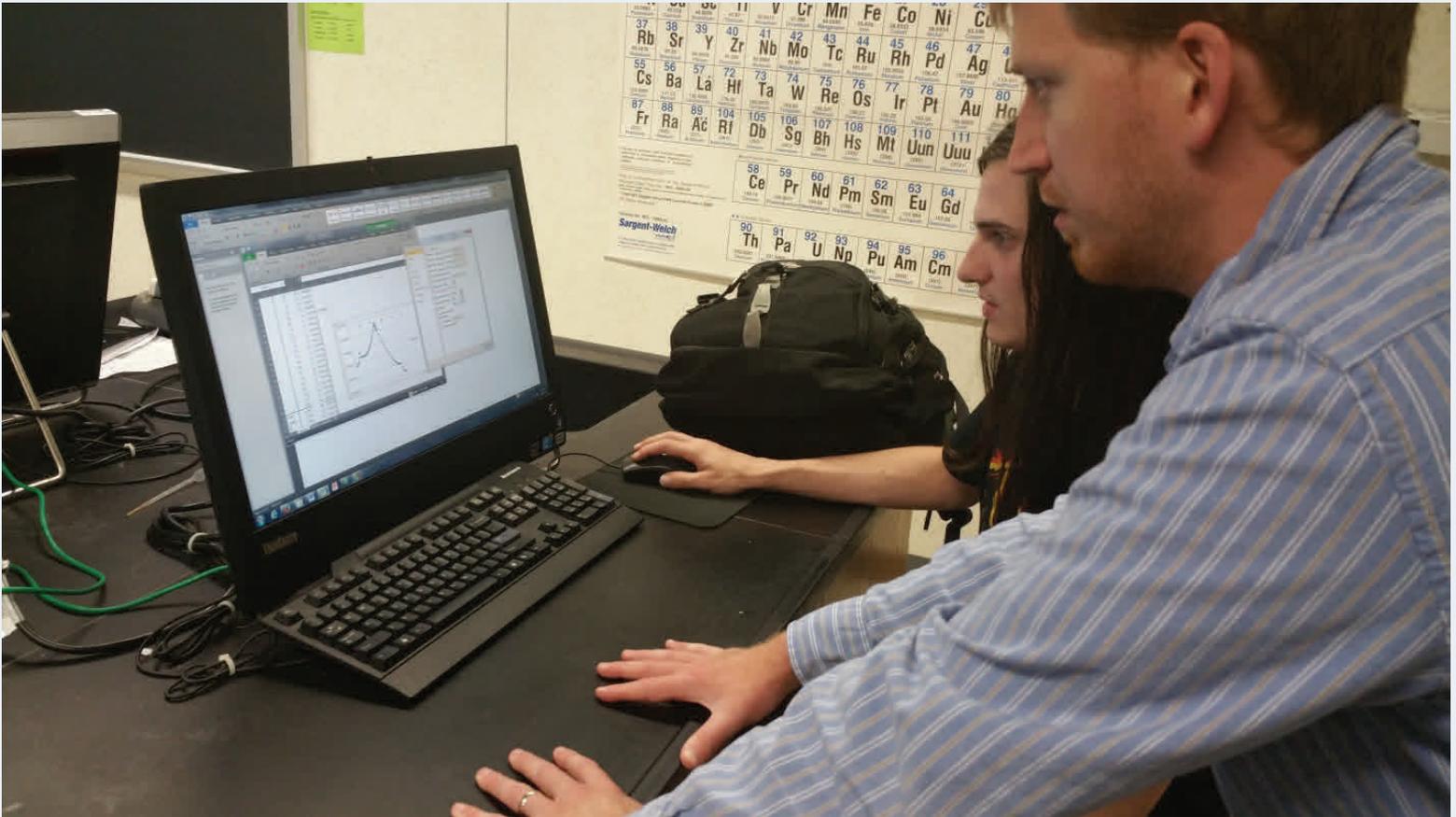
During Fiscal Year 2015, faculty and staff submitted 65 proposals to external sponsors requesting \$4,783,487 and received 42 awards totaling \$2,533,805 (38% increase). Sixteen proposals were pending at the end of the fiscal year.

The largest number of awards, 15 out of 42 awards, came from the System Transfer category. Awards in other categories included 10 Private Foundation, 9 Federal, and 8 State. The largest amount of funding came from Federal sponsors (62%), approximately \$1,583,406.

	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015 ¹
Submissions	81	62	41	41	72	65
Awards	54	41	31	22	41	42
Total Requests	\$5,115,319	\$3,673,977	\$3,196,552	\$3,803,443	\$4,613,784	\$4,783,487
Total Awards	\$2,919,566	\$2,212,222	\$2,785,480	\$1,616,612	\$1,832,577	\$2,533,805

1. 16 proposals were pending at the end of fiscal year 2015.





Kutztown University Professional Development Committee Funding

The Professional Development Committee provides funding to promote scholarship. Funding is available for 1) travel assistance for professional and scholarly activities, 2) projects that enhance instruction, and 3) the purchase of items necessary to develop a novel approach and/or new direction for a course.

Recipients of Professional Development Committee Funding

NAME	DEPARTMENT
Darren Achey	Physical Sciences
Aimee Adams	Counseling & Psychological Services
Okan Akcay	Business Administration
Andrew Arnold	History
Christine Atiyeh	Fine Arts
Allan Back	Philosophy
Douglas Becker	Biological Sciences
Margaret Bestwick	Elementary Education
Anthony Bleach	English
Christopher Bloh	Special Education
Amber Boyer	Physical Sciences
Anne Brawand	Special Education
Kathryn Buschan	Special Education
Kerri Cebula	Sport Management & Leadership Studies
Colleen Clemens	English
Joanne Cohen-Hamilton	Counseling & Student Affairs
John Conahan	Social Work
Andrew Corsa	Philosophy
Muhammed Dalgin	Business Administration
Todd Dodson	English
Michael Downing	English
Robert Duquette	Business Administration
Mary Eicholtz	Communication Studies
Robert Folk	English
Jennifer Forsyth	English
Kurt Frieauf	Physical Sciences
Albert Fu	Anthropology & Sociology
Arthur Garrison	Criminal Justice
Janice Gasker	Social Work
Soo Goh	Music
Ronald Grapsy	Communication Studies
Christopher Habeck	Biological Sciences
Helen Hamlet	Counseling & Student Affairs
Gregory Hanson	Modern Language Studies

Eileen Hogan	Business Administration
Julia Hovanec	Art Education & Crafts
Tauqeer Hussain	Computer Science & Information Technology
Daniel Immel	Music
Loriann Irving	Academic Enrichment
Jennifer Jacobson	Political Science
Joseph Jedwab	Philosophy
Deryl Johnson	Communication Studies
Nicole Johnson	Special Education
Matthew Junker	Physical Sciences
Jeremy Justeson	Music
Mahfuzul Khondaker	Criminal Justice
Kraig Kiehl	Criminal Justice
Robert Kilker	English
Soojin Kim	Sport Management & Leadership Studies
Yongjae Kim	Sport Management & Leadership Studies
Yoon Mi Kim	Social Work
Diane King	Special Education
Kevin Kjos	Music
Laura Koenig	Psychology
Erin Kraal	Physical Sciences
Jonathan Kramer	Business Administration
Jonathan Kremser	Criminal Justice
Brian Kronenthal	Mathematics
Rajeev Kumar	Business Administration
Lynne Kutch	Modern Language Studies
Eric Landquist	Mathematics
Jason Lanter	Psychology
Mathias Le Bosse'	Geography
Perry Lee	Mathematics
Anne Lemon	Communication Design
Liao Liao Li	Business Administration
Min Liu	Criminal Justice
John Lizza	Philosophy
Keith Logan	Criminal Justice
Yun Lu	Mathematics
Patricia Lutz	Elementary Education
Amy Lynch-Binieck	English
Sharon Lyter	Social Work
Mostafa Maksy	Business Administration
Keith Massie	Communication Studies
Nicole McClure	English
Catherine McGeehan	Elementary Education
Padraig McLoughlin	Mathematics
Avidan Milevsky	Psychology

Lauren Moss	Counseling & Student Affairs
Khori Newlander	Anthropology & Sociology
Carrie Nordlund	Art Education & Crafts
Melissa Nurczynski	English
Adrienne Oakley	Physical Sciences
Mary Ann O'Neil	Elementary Education
Dale Parson	Computer Science & Information Technology
Sylvie Pascale Dewey	Modern Language Studies
Amy Pfeiler-Wunder	Art Education & Crafts
Carissa Pokorny Golden	English
William Prystauk	English
Michael Radyk	Art Education & Crafts
Frederick Redekop	Counseling & Student Affairs
Glenn Richardson	Political Science
Todd Rober	Music
Angelo Rodriguez	Modern Language Studies
Jesus Rodriguez	Modern Language Studies
Elizabeth Rogol	Sport Management & Leadership Studies
Nicole Romanski	Art Education & Crafts
John Ronan	English
Robert Ryan	Psychology
Wendy Ryan	Biological Sciences
Christopher Sacchi	Biological Sciences
Christine Saidi	History
Rick Salafia	Art Education & Crafts
Maria Sanelli	History
Steven Schnell	Geography
Timothy Schwarz	Music
Jacob Sewell	Physical Sciences
Yasoda Sharma	Social Work
Laura Sherrod	Physical Sciences
Yong-Sang Shim	Computer Science & Information Technology
Kim Shively	Anthropology & Sociology
Edward Simpson	Physical Sciences
Dawn Slack	Modern Language Studies
Judith Smith	Sport Management & Leadership Studies
Kathleen Stanfa	Special Education
John Stanley	History
Marilyn Stewart	Art Education & Crafts
Stephen Stoeffler	Social Work
Ronald Stoffey	Psychology
Joo Tan	Computer Science & Information Technology

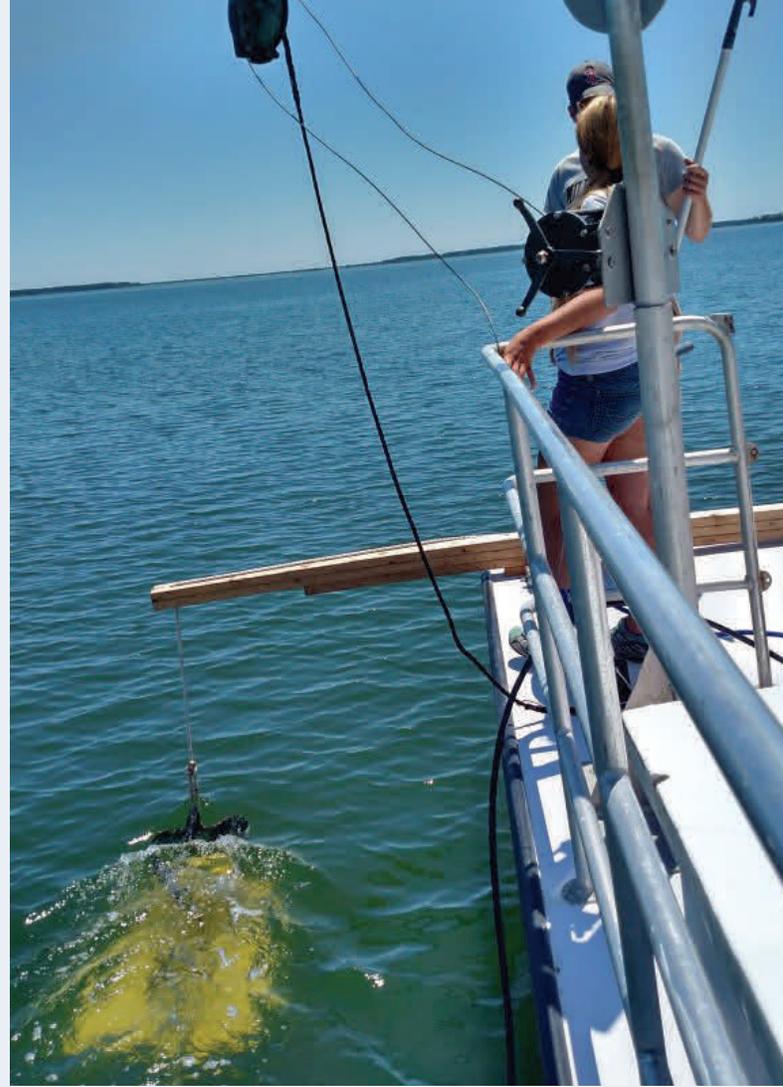
Mary Theis	Modern Language Studies
Sarah Tindall	Physical Sciences
Pietro Toggia	Criminal Justice
Valerie Trollinger	Music
Raymond Tumbleson	English
Claire Van Ens	Communication Studies
Krista Varano	Elementary Education
Jeffrey Voccola	English
Andrew Vogel	English
David Wagaman	Business Administration
Patricia Walsh Coates	Secondary Education
Patrick Walters	English
Karen Wanamaker	Rohrbach Library
Carol Watson	Elementary Education
David Webb	Anthropology & Sociology
Lisa Weckerle	Communication Studies
FangHsun Wei	Social Work
Christopher Weiler	Elementary Education
Mary Rita Weller	Social Work
John Howell White	Art Education & Crafts
Michele White	Elementary Education
James Williams	Business Administration
Wing Hong Tony Wong	Mathematics
Ju Zhou	Mathematics
Nancy Zimmerman	Modern Language Studies
Maximiliano Zuniga	Modern Language Studies

Professional Development Committee Facts

The Professional Development Committee awarded approximately \$141,401 in funding to 159 applicants. The majority of the funding was used to support faculty travel to present scholarly work. Other funding was used to support faculty purchases of materials to develop a novel approach and/or new direction for a course.

	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015
Received	151	151	137	152	139	163
Awarded	134	143	128	146	137	159
Total Requested	\$ 122,035	\$ 104,454	\$ 99,848	\$ 128,552	\$ 113,372	\$ 145,939
Total Awarded¹	\$ 101,207	\$ 94,350	\$ 91,986	\$ 120,921	\$ 112,372	\$ 141,401
Annual Funding Available	\$ 94,482	\$ 94,482	\$ 120,482	\$ 120,482	\$ 120,482	\$ 120,482

1. Total Awarded may exceed Annual Funding Available due to the carryover of funds from prior years.





KUTZTOWN

U N I V E R S I T Y

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