Abstracts for Awarded Grants FY13 By Department

Academic Affairs:


This grant establishes a preliminary model for the design and implementation of the Woodrow Wilson Foundation New Jersey Teacher Fellowship Program at TCNJ. Under this Program, the Foundation will work with TCNJ to recruit some of the best and brightest individuals as Woodrow Wilson Teaching Fellows, and will place these Fellows in new graduate level teacher preparation programs. These Fellows will agree to teach in high need urban and/or rural schools in New Jersey for at least three years, while TCNJ shall provide the Fellows with intensive mentoring.

School of Arts and Communication:

Department of Art and Art History:

CROLL, Emily: Sarnoff Study Center – IEEE – 1/1/2013-9/1/2013 – N1360 – Awarded $19,800:

The College of New Jersey has secured this grant to support the establishment of the Sarnoff Study Center. This grant will support the conversion of a 1,000 square-foot space on campus into an open, archival study and storage facility, where college classes, visiting school groups, and outside researchers can gather to learn about the collection, examine the artifacts, and engage in a broad range of research activities. The Sarnoff Study Center will allow for a secure, archival storage area to house the artifacts, thus ensuring the collection is preserved and maintained for generations to come.

CROLL, Emily: 2013 NJ Art Gallery – MCCHC – 1/1/2013-12/31/2013 – S1480 – Awarded $4,150:

This MCC&HC grant will help support The College Art Gallery at The College of New Jersey’s public programs including exhibition and arts lectures. The College Art Gallery presents six exhibitions and several lectures annually. All gallery events are free and open to the public. Funding defrays costs related to printing, professional fees and exhibition costs.

School of Business:

Business Department:

ALLEN, Lorraine: SBA Hurricane Sandy – United States SBA - 4/1/2013 - 9/30/2013 – F1354 - Awarded $16,500:

This grant will support the creation of centers to provide clients with free, confidential counseling, free and affordable workshops, and marketing research to support business expansion. In addition to these services the centers will also provide online resources, information, courses, and communication.

The Small Business Development Center at the College of New Jersey provides assistance to small businesses in all industries to maneuver around the obstacles of success. The SBDC offers group as well as confidential one-on-one counseling at no charge, in addition to a variety of workshops, seminars, and small business certificate programs.

**ALLEN, Lorraine: SBDC State Portion CY2013 – SBDC Rutgers – 7/1/2012-6/30/2013 – S1341 – Awarded $16,500:**

The Small Business Development Center at the College of New Jersey provides assistance to small businesses in all industries to maneuver around the obstacles of success. The SBDC offers group as well as confidential one-on-one counseling at no charge, in addition to a variety of workshops, seminars, and small business certificate programs.

**ALLEN, Lorraine: SBDC Mercer – SBDC – 1/1/2013-12/21/2013 – C1352 – Awarded: $15,000:**

The Small Business Development Center at the College of New Jersey provides assistance to small businesses in all industries to maneuver around the obstacles of success. The SBDC offers group as well as confidential one-on-one counseling at no charge, in addition to a variety of workshops, seminars, and small business certificate programs.

**Community Centers:**

**Bonner Center:**

**DONOHUE, Patrick: Bonner Community Scholars at TCHS FY2013 – Trenton Board of Education – 9/1/2012-8/31/2013 – S1399 – Awarded: $24,350:**

This grant was awarded to the Bonner Center to provide support to Trenton Central High School in the following areas: Community Scholars Team, Service Learning Classes, Book Club, Young Men Leadership Academy, Social Media Consultant, Youth Development Enrichment Days, and TCNJ Campus Tours. The Bonner Center will carry out these duties through providing tutoring and mentoring programs, beautification projects, providing teachers support in service learning, assisting with recruitment for the Book Club, and leading discussion groups with the Young Men Leadership Academy, among other things. Through this grant the Bonner Center and TCHS plan to reach approximately 300 ninth through twelfth grade students.

**DONOHUE, Patrick: CNCS-AmeriCorps VISTA (yr 3) – CNCS – 7/1/2013-6/28/2014 – F1152 – Awarded: $40,000:**

The work of the New Jersey Bonner VISTA Fellows Program will address persistent statewide poverty issues with a particular emphasis on Essex, Middlesex and Mercer counties. Municipalities within these counties such as Newark, New Brunswick and Trenton are plagued by extreme levels of poverty. The need for anti-poverty programs in the targeted geographic areas is well documented. The New Jersey Bonner VISTA Fellows Program will focus on various anti-poverty services and in particular, those services related to the Corporation's focus areas of Economic Opportunity, Education, and Healthy Futures.

**DONOHUE, Patrick: East Trenton Collaborative – East Trenton Collaborative – 7/1/2012-12/31/2013 – N1353 – Awarded: $40,000:**
This grant was awarded to the Bonner Center to provide these general services to the East Trenton Collaborative: staffing the Learning Lab, the Bodega Outreach, Business Plans, TCNJ Vendor Access, Grant Writing, African American Cemetery Project, Green Fair, and two Neighborhood Beautification projects through Community Engaged Learning Days.

**DONOHUE, Patrick: Bonner Endowment – Bonner Endowment – 7/1/2012-8/31/2013 – N1817 – Awarded $50,000:**

**DONOHUE, Patrick: Wells Fargo Bonner Education Team- The Wachovia Wells Fargo Foundation – 8/22/2012-8/31/2013 – P 1355 – Awarded $20,000:**

**DONOHUE, Patrick: FY13 Community Partner Capacity – Multiple Community Agencies – 7/1/2012-6/30/2013 – P1351 – Awarded $30,000:**

**DONOHUE, Patrick: Fugitive Safe Surrender – NJ Department of Law and Public Safety – 3/12/2013-12/31/2013 – S1397 – Awarded $6,786:**

Fugitive Safe Surrender (“FSS”) is based on an initiative created by the U.S. Marshals Service that encourages fugitives – through coordinated media and community outreach efforts – to voluntarily surrender to authorities at both faith-based and other neutral settings and, where law and justice allow, proceed through final adjudication the same day. As a part of this grant the Bonner Center agrees to the following responsibilities: Work with a Bonner Academic Fellow and develop a database that would allow volunteers to enter “face sheet” information provided by FSS participants and, where available, “look up” information captured by law enforcement; Prior to developing the database, interview Office of the Attorney General (OAG) staff to confirm the exact fields the volunteers will enter into system; Pick up and scan all FSS face-sheets so they are temporarily saved in a secure location in the event any hard copies are misplaced during the data entry stage; Recruit, train, schedule, and supervise a team of volunteers who will enter information from the “face-sheet” and, where available, “look up” information; Produce an interim set of tables for OAG staff as well as the Bonner Academic Fellow who will work with Bonner Scholars to analyze the data; Provide a final report that summarizes and analyzes the data for the FSS/OAG staff; Work with a faculty partner to shape, organize and manage a community engaged learning class project to create an interactive website that focuses on the NJ FSS program; and work and supervise a Bonner Community Scholar student and other volunteers who will build upon the work of the class-based project and create the final product—in consultation with the FSS/OAG staff.

**FOELL, Christen: NJ AmeriCorps Bonner Match FY13 – The Corella and Bertram F. Bonner Foundation – 9/1/2012-8/31/2013 – N1350 – Awarded $50,995:**

This grant is part of an effort to mobilize students, professors, and other volunteers to address the unmet needs of local communities. In particular, this grant will be used to fund Program Operating Costs as defined by the New Jersey AmeriCorps Bonner Leader Program project budget and any other budge amendments sent to the Bonner Foundation.

**FOELL, Christen: NJ AmeriCorps State Formula FY2013 – Department of State – 8/22/2012-8/31/2013 – S1350 – Awarded $327,287:**
Given the breadth of community needs within the targeted geographic areas, Bonner AmeriCorps members will serve with a wide range of organizations addressing the needs related to education, poverty, economic opportunity, environmental issues, services for persons living with disabilities and other human needs. However, Bonner AmeriCorps members will be primarily involved in service related to the educational, economic, and health related needs of disadvantaged persons.

**FOELL, Christen: NJ AmeriCorps Bonner Leader Program – NJSCNCS – 9/1/2013-12/31/2013 – S1250 – Awarded $236,808:**

The New Jersey AmeriCorps Bonner Leader Program has sought to address critical community needs such as emergency food assistance and mentors for youth throughout Mercer and Middlesex counties in New Jersey. Through this grant, we will be able to increase the number of AmeriCorps members engaging in service activities related to economic opportunity. Members will provide emergency food assistance to individuals and families in need, housing services to the homeless and those at risk for homelessness, and adult education classes to members of the community.


Given the breadth of community needs within the targeted geographic areas, Bonner AmeriCorps members will serve with a wide range of organizations addressing the needs related to education, poverty, economic opportunity, environmental issues, services for persons living with disabilities, and other human needs. However, Bonner AmeriCorps members will be primarily involved in service related to the educational, economic, and health related needs of disadvantaged persons.

**NJSSI:**

**DREWES, Donna: Sustainable Jersey FY2013 – Dodge Foundation – 7/1/2012-12/31/2013 – N1327 – Awarded $300,000:**

The funding from this grant is intended to support the work of TCNJ’s Sustainability Institute related to Sustainable Jersey’s municipal government certification program. This includes: identifying key sustainability issues that can be addressed at the local level, documenting solutions and best practices related to those issues, and maintaining a robust program of financial, technical, and peer support, and policy coordination to help move communities toward sustainability.


Through this grant, this project will begin with a robust inventory of the universe of local public buildings including counties, municipalities, schools, authorities, and special districts. Taking a holistic approach to this building portfolio, the program will proceed in four phases that will systematically address all of the targeted buildings. The effort will put in place a system that will be sustainable beyond the terms of this grant and will result in a twenty percent or greater reduction in energy consumption in local government buildings statewide.

**SOLOMON, Randall: Sandy Recovery Network – Surdna Foundation – 5/7/2013-5/6/2014 – N1325 – Awarded $100,000:**
The purpose of this grant is to support Sustainable Jersey in fielding a network of Recovery and Resiliency Coordinators to assist local governments with Sandy Recovery and resiliency planning. This grant supports sustainable communities, communities guided by principles of social justice and distinguished by healthy environments, strong local economies, and thriving cultures.

School of Education:

*Center for Assistive Technology and Inclusive Education Studies (CATIES):*


This program of study provides training in the use of assistive technology to access computers for personal use or possible employment opportunities. Students with no knowledge of computers learn to use appropriate adaptive software including Microsoft Word, Excel, PowerPoint and Access as well as basic computer skills such as keyboarding, use of the Internet for information retrieval and sending and receiving e-mail.


The purpose of this grant is to educate school personnel and parents on how to select and use iPad technology to provide students who have disabilities with access to appropriate apps for augmentative communication, reading, writing, visual supports, and learning. This grant intends to expand the Center for Assistive Technology and Inclusive Education Studies (CATIES) inventory of assistive technology apps and accessories for the iPad that will enable students who have disabilities to use the iPads. CATIES also intends to hold iPad Demonstration Days to provide demonstrations of apps and accessories that may meet students’ educational needs to interested school personnel and parents. Finally, this grant will provide support for CATIES to conduct outreach to school districts and parents so that they will be aware of CATIES expertise in using iPads to support the education of students with disabilities and available trainings.

*Center for Future Educators:*

FIEBER, Laurence: Center for Future Educators at TCNJ Renewal 2014-2016 – NJEA – 1/1/2014-12/31/2016 – N1120 – Awarded $645,000:

The renewal of this grant will continue the partnership between the NJEA and TCNJ, to continue the Center for Future Educators at TCNJ for prospective future teachers. This grant will also continue to support the following programs: the New Jersey Future Educators Association (NJFEA), NJFEA State Conference, NJFEA Middle School Conference, NJFEA Student Members and Advisors Leadership Development, NJEA Convention NJFEA Session, Urban Teacher Academy, Tomorrow’s Teachers Training, recruitment, media coverage and outreach, and public relations.

*Center for Sensory and Complex Disabilities (CSCD):*

PETROFF, Jerry: Work Skills Prep FY2013 – New Jersey Department of Human Services/CBVI – 7/1/2012-9/30/2012 – S1261 – Awarded $188,993:
The goal of this grant is to provide a Two-Week Summer Program for Extended School Year Service and Transition/Vocational Assessment for youth who are blind/visually impaired with complex educational needs. TCNJ will design and implement a two-week summer residential program for high school students (ages sixteen and over), who would benefit from an employment outcome upon graduation with or without supports. There will be two, two-week sessions that will include up to twelve students per session, twenty-four students per summer. This program is designed to yield critical transition-sensitive information as well as provide a context for youth to maintain academic and functional skills over the summer months. It includes dedicated classes, community-based vocational experiences, campus-wide and community recreation activities, and independent living skills assessment and development.

PETROFF, Jerry: NJ Deaf-Blind Equipment Distribution – New Jersey Department of Human Services/CBVI – 8/7/2012-6/30/2013 – S1359 – Awarded $95,055:

The purpose of this grant is to ensure that New Jersey residents who are deaf-blind and meet the program’s eligibility requirements will receive the specialized customer premises equipment needed to effectively access telecommunication services, Internet access services, and advanced communication services. This will be accompanied by identifying eligible individuals, meeting with them to assess their technology and communication needs, purchasing appropriate equipment, and training the individual in its use.

PETROFF, Jerry: Work Skills Prep Program (WSP) – New Jersey Department of Human Services/CBVI – 9/1/2012-9/30/2013 – S1361 – Awarded $309,878:

The goal of this grant is to provide a Two-Week Summer Program for Extended School Year Service and Transition/Vocational Assessment for youth who are blind/visually impaired with complex educational needs. TCNJ will design and implement a two-week summer residential program for high school students (ages sixteen and over), who would benefit from an employment outcome upon graduation with or without supports. There will be two, two-week sessions that will include up to twelve students per session, twenty-four students per summer. This program is designed to yield critical transition-sensitive information as well as provide a context for youth to maintain academic and functional skills over the summer months. It includes dedicated classes, community-based vocational experiences, campus-wide and community recreation activities, and independent living skills assessment and development.

PETROFF, Jerry: Support Service Providers FY2013 (SSP) – CBVI – 7/1/2012-6/30/2013 – S1365 – Awarded $223,134:

The goal of this grant is to promote greater community integration for adults who are deaf-blind and that meet the project criteria through development and implementation of a statewide network of Support Service Providers.

School of Engineering:

Civil Engineering:

BECHTEL, Andrew: Fresh Concrete Water: Cement Ratio for NJ ACI – NJ Chapter of American Concrete Institute – 8/1/2013-11/11/2013 – P1420 – Awarded $8,836:
This grant will support research to show the accuracy and repeatability of the AASHTO T-318 test when the concrete is properly sampled according to AASHTO T-141. This will be accomplished in two phases. The first phase will be the laboratory phase. Small batch mixes (1/8th ft3) will be created where the water content can be strictly controlled. AASHTO T-318 will then be used to evaluate the known water content. A larger batch (1 ft3) will then be created in a drum mixer and its calculated water content using AASHTO T-318 will be compared to its known water content and the water content of the same mix at a smaller scale. These tests will be performed to show the accuracy and repeatability of the AASHTO T-318 test. In Phase II AASHTO T-318 will be used along with AASHTO T-141 to sample and determine the water content of concrete from a ready mix truck.


The contractor of this grant shall, through its Civil Engineering Department, assist and support the Bureau in developing and presenting a one-day educational workshop for dam owners and dam safety personnel or a training workshop that provides technical education for the Bureau staff.


**Electrical and Computer Engineering:**

DEESE, Anthony: Smart Power Distribution System Curriculum-MultInstitutional Demonstration and Deployment – NSF – 9/1/2012-8/31/2015 – F1380 – Awarded $44,023:

The grant awarded to the power distribution system curriculum is designed to educate students in the operation and planning of smart electric power distribution systems. The curriculum centers around a distribution automation and control laboratory, coupled with software programs to visualize collected data and to control the distribution system. The proposed project addresses the following Transforming Undergraduate Education in Science (TUES) project components: (i) the creation of new learning materials and strategies and (ii) the implementation of these new strategies at five academic institutions. By construct, the proposal will also pilot the (iii) development of faculty expertise in power and energy system education.

**Mechanical Engineering:**

SEPAHPOUR, Bijan: Battery Operated Electric Motor ½ Ton Ride-On Roller Prototype Development – Brutus Roller, Inc. – 8/31/2012-5/1/2013 – N1380 – Awarded $10,000:

With the awarding of this grant, The College of New Jersey agrees to design and create a working prototype of a battery operated electric motor version of the existing Brutus Roller “1/2 Ton Ride-On Roller.” This prototype would be used for rolling clay tennis courts. Brutus Roller, Inc. has been providing tennis court rolling machines for over half a century and is looking to convert their gasoline driven units to Green units, to reduce the carbon footprint and eliminate noise pollution. The battery-powered prototype is potentially their solution.

**STEM Center:**
ANDERSON, Christopher: Engineering By Design – Edison Venture Foundation – 9/1/2012-8/1/2013 – N1232 – Awarded $103,222:

The goal of this grant is to increase the size of the NJ State Consortium to 60 Districts, or 50 Network Schools, represented by 100 teachers. This grant also seeks to work toward the creation of a self-sustaining consortium by the end of the third year, beginning now by investing in trainers that can generate revenue, and by charging for supplemental professional development offerings.

GOEKE, Alison: TSA Expansion Year 5 – Edison Venture Foundation – 2/1/2013-1/31/2014 – N1328 – Awarded $99,997:

The expansion of this grant will allow for the creation of twenty professional development workshops for TSA advisors that support the enhancement and expansion of NJ TSA. Supplementary resources supporting the following themes will also be developed and available. Themes include The Business of Running a TSA Chapter, building relationships with local two and four-year colleges to provide opportunities for TSA students, and successful integration of TSA into your school and district. This grant will also support the creation of promotional materials to promote TSA membership and provide STEM education and career awareness for TSA student members making TSA a year-round activity and expanding opportunities, beyond competition-based events.

GOEKE, Alison: CTEP State FY 2013 – NJ Department of Education – 9/1/2012-8/31/2013 – S1327 – Awarded $146,500:

The Collegiate Organization Technology Education Society (TES) will provide support to Technology Student Association (TSA) in preparing the site and in conducting the NJ Competitive Events Spring Conference and Fall Leadership Conference.

GOEKE, Alison: CTEP Federal FY2013 – NJ Department of Education – 9/1/2012-8/31/2013 – F1328 – Awarded $175,000:

This team of college faculty members, representatives from business and industry, secondary and postsecondary teachers, administrators and counselors has worked collaboratively toward developing a vision of statewide, standards-based, quality, secondary and postsecondary STEM education. The goals of this project are to implement the model program of study in Socially Responsible Engineering & Technology developed through the Career & Technical Education Partnership (CTEP) at The College of New Jersey. This grant will also assess the Socially Responsible curricula by providing feedback to CTEP and supplementing it with materials developed by the pilot districts. The last goal of the grant will be to participate in technical assistance and professional development opportunities that support implementation of the Socially Responsible program of study.

School of Humanities and Social Sciences:

History Department:

CHAZELLE, Celia: NJ Step – Vera Foundation – 9/1/2012-8/31/2013 – N1342 – Awarded $23,000:

The College of New Jersey was awarded this grant to work in conjunction with the NJ-Step staff at Rutgers University School of Criminal Justice to offer college courses in NJ State correctional facilities as
a member of the STEP Consortium. TCNJ will specifically recruit faculty to teach courses offered by the college, both college level degree tracked courses and combined courses with TCNJ civilian students.


The New Jersey Society for Transformative Education in Prisons (NJ-STEP) is a new association of higher educational institutions in partnership with the NJ Department of Corrections (DOC) and State Parole, working to enhance and coordinate the higher educational services to all students under the custody of the State of New Jersey, while incarcerated and upon release. Through the Center for Prison Outreach and Education and the Bonner Center for Civic and Community Engagement, The College of New Jersey has been able to provide tutoring and enrichment to area prisons. The continuing goal of this grant is to maximize the inmates’ possession of internal and external assets needed to succeed in life through a mentor program. These internal and external assets include, higher levels of self-esteem, greater motivation to learn, greater confidence in their ability to do well in school, and greater trust in the efforts of educational professional to help them succeed.

CHAZELLE, Celia: Pathways Project-NJ STEP – Vera Institute of Justice – 1/2/2013-12/31/2013 – N1346 – Awarded $45,116:

The College of New Jersey was awarded this grant to work in conjunction with the NJ-Step staff at Rutgers University School of Criminal Justice to offer college courses in NJ State correctional facilities as a member of the STEP Consortium. TCNJ will specifically recruit faculty to teach courses offered by the college, both college level degree tracked courses and combined courses with TCNJ civilian students.

SHAO, Qin: Fellowship Humboldt – Humboldt University – 1/1/2013-7/31/2013 – P1325 – Awarded $60,541:

This grant seeks to examine the displacement and change of work and life course in post- Mao China.

World Languages Department:

RIFKIN, Benjamin: Undergraduate International Studies and Foreign Language Program – Office of Post-Secondary Education-Department of Education – 9/1/2012-8/31/2013 – F1365 – Awarded $326,828:

This grant globalizes the curriculum for students majoring in history secondary education, by developing a new course on the practice of oral history and providing these students with an opportunity to study Russian language and history and volunteer in a Russian high school in Vladimir, Russia. The program will enrich the intermediate Russian curriculum with history-based language lessons to prepare students for community-engaged learning, which consists of an Oral History Project with elderly Russian-speaking immigrants in Philadelphia and is facilitated by a community center in the Russian neighborhood of Northeast Philadelphia, the New World Association. This program teams TCNJ students with practicing in-service teachers for an intensive week-long Russian history seminar coupled with an oral history methods seminar immediately prior to the Oral History Project in Philadelphia. This experience will help professionalize our students while globalizing the practice of the in-service teachers.

Center for Global Engagement:

Those living in democratic societies often take the idea of “freedom” for granted. Václav Havel, who led his country in a non-violent revolution, was never complacent about the freedoms that had been so hard-fought. In this spirit, and honoring Havel’s legacy following his recent death, this grant supports a yearlong lecture and film series focused upon the contemporary history of Europe, confrontations between different forms of tyranny, and advocates for liberty and democratic values. Goals for this grant include: presenting examples of tyranny in European history and contemporary society, comparing and contrasting the motivations behind the confrontation of tyranny by individuals and groups in European society, reflecting upon those attempts to represent these struggles against tyranny in literature and film, placing contemporary Europe in a humanities complex, and hosting a dialogue between the TCNJ Community and the public about the meanings of tyranny and freedom.

School of Nursing, Health and Exercise Science:

Nursing Department:

BILCHARZ, Marcia: Sexual Assault Nurse Examiner Basic Training Course – NJNI – 9/1/2012-12/31/2013 – S1310 – Awarded $15,000:

The College of New Jersey was awarded this grant in order to offer an affordable Basic Sexual Assault Nurse Examiner Course in order to support the statewide Sexual Assault Nurse Examiner (SANE) Program. The goals of this grant are to offer affordable and accessible training in the SANE Basic Course in such a way as to allow full time professional nurses the flexibility to take this course, while maintaining current work obligations.

MITCHELL, Susan: Pedestrian Safety Enforcement Year Two – State Division of Traffic Safety – 10/1/2012-9/30/2013 – F1310 – Awarded: $63,013:

With New Jersey having the highest percentage of pedestrian fatalities, the Pedestrian Safety Enforcement (PSE) is a valuable tool for improving pedestrian safety. PSE addresses education and enforcement to change behavior and improve pedestrian safety through a centralized resource website, a consistent and uniform training program, continued training opportunities and pragmatic and technical assistance to advance the program. This project will also inform curricular development for the TCNJ public health minor.

School of Science:

Biology Department:


Continuing her work on the award from when she was at Yale, Professor Clement will anchor the molecular parts of the project and work closely with undergraduate students at The College of New Jersey on several sub-projects.

Barnacles are conspicuous and important members of all marine fouling communities and are globally important to the performance of the naval fleet. This grant will further our understanding of barnacle glue curing as well as ways to disrupt glue curing and manage marine fouling in a way that is compatible with foul-release and ablative coatings. The second part of this research component focuses on phosphoproteins and their role in the biominalization process. Prior to this project, phosphoproteins had not been identified in barnacle glue. It is possible that phosphorylated proteins are recalcitrant in polymerized glue, and are therefore not observed when approaches that involve dissolving solidified glue are used. However, a recent study of uncured barnacle glue using 2D gel electrophoresis showed a pattern suggestive of multiple phosphoproteins. Given that phosphoproteins are an emerging theme in marine glues, this observation warrants further investigation.


For this grant, the contractor will collect genetic material from two to three populations of the known extant eastern pearlshell in Pennsylvania. The contractor will then evaluate the remaining genetic variation within each of up to three populations, by sampling tissue from up to fifty individuals per population. This is to understand further the historic migration and isolation among populations.


Through this grant, the contractor will sample genetic material from up to fifty individuals in two to three populations of eastern pearlshell. Genomic DNA from mantel tissue will then be isolated. The hierarchical distribution of genetic variation will then be evaluated.

Morrison, Janet: (Deer) X (Invasives)²: Interactive Effects in the Herb Layer of Suburban Forests–National Science Foundation – 3/5/2013-2/28/2018 – F1333 – Awarded $300,000:

This grant puts into one interconnected system the experimental effects from two co-occurring, dominant invasive species: Alliaria petiolata (ALPE, garlic mustard) and Microstegium vimineum (MIVI, Japanese stilt-grass) on the resident herb layer community of suburban forests - and on each other’s demography and invasion. It also includes effects from generalist herbivory by overabundant deer on both species’ invasion processes and on the plant community. This study will significantly advance invasion and plant community ecology, through an important combination of elements.

Chemistry Department:

O’Connor, Abby: New Ni(II) and Pd(II) Complexes Containing Hemilabile Pendent Arene Groups to Catalyze the Polymerization of Olefins and Polar Monomers – Research Corporation for Scientific Advancement – 7/1/2012-6/30/2014 – N1331 – Awarded $35,000:

This awarded grant supports the following goals of this project, of which there has been significant progress: To synthesize and characterize a library of neutral and cationic (allyl) nickel (II) and (allyl) palladium (II) complexes containing dialkylbiaryl phosphine ligands and to evaluate the catalytic activity of the palladium and nickel complexes for the polymerization of nonbornene and dienes.
O’CONNOR, Abby: Synthesis of Cationic Nickel (II) Complexes Containing Hemilable Arms for use as Alkene Hydrogenational Catalysts – American Chemical Society – 9/1/2013-8/31/2015 – P1340 – Awarded $50,000:

This grant seeks to survey new types of substituted allyl ligands containing coordinating groups, for use as supports in Ni mediated small molecule activation, specifically hydrogenation catalysts.

Computer Science Department:

KIM, Edward: Web-Based Annotation and Retrieval: Computer Assisted Technology for Medical Image Segmentation and Patterns – NIH, Lehigh University – 10/1/2012-8/31/2013 – F1375 – Awarded $17,764:

Through this grant, the contractor will continue to support the development and implementation of medical image indexing and retrieval of digital cervix images. The work will be performed to increase the segmentation and retrieval accuracy of these images by use of image features or multi-modal approaches. The contractor will also carry out a research and development task in face recognition to support National Library of Medicine’s efforts in using computer technology for photographic identification of lost or missing individuals during large-scale or other natural disasters.

KIM, Edward- wHealth- A Window into Your Future Health (phase 1) – Robert Wood Johnson Foundation – 4/22/2013-9/1/2013 – N6009 – Awarded $5,000:

PULIMOOD, Sarah Monisha: TUES: Collaborating Across Boundaries to Engage Undergraduates in Computational Thinking – National Science Foundation – 8/15/2012-7/31/2015 – F1321 – Awarded $134,130:

The Bureau of Labor Statistics estimates that 1.4 million computing jobs will be added by 2018. Yet universities will produce fewer than half the candidates needed to fill these jobs. There continues to be a lack of motivation and interest among American youth to pursue careers in science, technology, engineering, and mathematics (STEM) fields. Our hypothesis is that to increase motivation toward, and interest in, computing careers, undergraduate students must be immersed in multidisciplinary collaborative experiences where they are creators of technology-based solutions, and where they internalize the relevance of and interconnectedness between classroom learning and the community they live in. STEM disciplines like biology and mathematics are well aligned with computational thinking and are obvious choices for collaboration with computer science, while journalism is not. Thus, this grant supports the development of a model for students and faculty to collaborate across diverse disciplines and with a community organization to develop technology-based solutions to address complex “real-world” problems.

Physics Department:

BENOIT, Margaret: EarthScope Seismic Experiment – National Science Foundation – 5/1/2013-4/30/2016 – F1325 – Awarded $151,977:

MAGEE, Nathan: Education &Public Outreach NASA Sub from LIU – NASA – 6/1/2012-8/21/2014 – F1337 – Awarded $55,996:
Through this grant, Dr. Magee will coordinate the recruitment efforts on the TCNJ campus for students planning to teach physical sciences, specifically in secondary schools. Moreover, this program will give pre-service teachers a real experience doing research as well as training in how they can incorporate NASA datasets and the opportunity for inquiry based learning that they provide in their lesson plans.

**Student Life:**

*Alcohol and Drug Education Program Department:*

**HADGE, Joe: Peer Institute FY2013 – NJHTS – 10/1/2013-9/30/2013 – F1350 – Awarded $73,500:**

Through grant monies, we are able to hold state-wide events such as the Peer Institute as a way to share ideas, methods, strategies, etc. to create substance-free events on college campuses. Presenters who attend these events, as well as TCNJ’s Welcome Week for incoming freshmen, discuss the concept of making healthy choices.

**HADGE, Joe: Lollanobooza 2012/2013 – NJ Department of Law and Public Safety – 7/1/2012-5/31/2013 – F1359 – Awarded $5,000:**

The specific goals of this event are to provide a non-alcoholic outlet to students, to prevent underage drinking and to promote responsible decision making and interaction with all members of the community. The event will be planned to take place on a known “drinking” night.