



Research News

December, 2014

Volume 6, Issue 4

A monthly publication of the Office of Research & Sponsored Programs at Kean University

IN THIS ISSUE

Two Foundations Support ADA Theatre Entrance Project

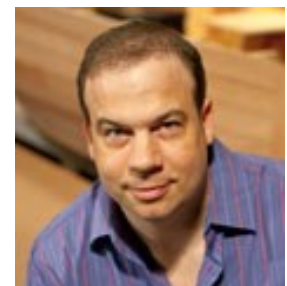
The Hyde and Watson Foundation and Union Foundation have provided support for an ADA access project for the main entrance of the Zella Fry Theatre on Kean University's campus. When completed, the proposed glass access corridor will afford patrons with disabilities much easier access to the building. Currently, patrons who are in wheelchairs or have difficulty navigating stairs must use one of two ramps, which are on the opposite end of the building from the theatre. The new corridor will also provide much closer proximity to the ADA parking spaces than the existing ramps. Premiere Stages, the professional theatre in residence at Kean University, offers discounted tickets to seniors and persons with disabilities. By affording easier access for these patrons, Premiere Stages will be able to significantly expand arts programming for this population.

The 99-seat adaptable Zella Fry Theatre is ideal for the production of intimate theatre and new work. The theatre was recently renovated with a sprung floor, new chairs, and flexible seating configuration. Plays can be staged in multiple configurations (proscenium, three-quarter thrust and in the round). Currently celebrating its 10th year, Premiere Stages develops and produces premieres by emerging and regional

dramatists and serves the cultural needs of the surrounding northern and central New Jersey communities. Numerous plays developed at Premiere have been published and have been subsequently produced in New York City and elsewhere. Premiere Stages is one of only a handful of Equity theatres in the nation that is a full program of a University. Premiere Stages is committed to serving the cultural needs of northern and central New Jersey through the development and production of Equity theatre premieres, professional development and training initiatives, and the cultivation of regional playwrights and emerging artists.

The Hyde and Watson Foundation and Union Foundation, unlike most foundations, both provide support primarily for capital projects. William V. Engel, The Hyde and Watson Foundation's president, explained why: *"Since we are one of a very small number of foundations who fund capital needs, we find that even small grants can provide a critical piece of a larger project or program that would otherwise not be covered. Additionally, by making grants for mundane yet essential capital needs...we can ensure that many nonprofits with very limited budgets and staff...can continue to provide their vital programs to their clients".*

Compliance Matters	2
Grant Administration	2
Deadlines & Reminders	2
Student Spotlight	3
ORSP News	3
Funding Opportunities	4



John Wooten
Producing Artistic Director
of Premiere Stages

Research Compliance Matters

Common Mistakes

Some of the most common mistakes that applicants make when putting together their IRB applications are in regards to consent and debriefing forms. One such mistake is not including a statement at the beginning of the consent/assent form that invites participants to take part in a research study. Principal Investigators should include their Kean email and phone numbers on all

consent and debriefing forms. Personal email addresses or non-Kean numbers are not permitted.

When referring participants to the IRB, please note that the committee cannot answer general questions about your study. Participants should only be referred to the IRB if they have questions about their rights as research participants.

This statement along with the IRB contact information (IRB@kean.edu and 908-737-3464) should appear on every consent and debriefing form.

Contact Dr. Joseph Cronin jcronin@kean.edu or ext 73464 for questions and guidance related to all aspects of research compliance.



Grant Administration

Grant Funded Travel

All grant-funded travel must follow the University policies on travel in addition to any particular guidelines of the sponsor.

ORSP must approve any travel that will be expensed against external or internal grant funds. Reimbursement for travel utilizing grant funds is not limited to the \$1,000 maximum currently in place for University travel. However, the amount and purpose for the travel must meet the programmatic and budgetary guidelines established within the grant/contract.

Mileage is reimbursed at the state rate of \$.31/mile. The mileage must be calculated from the Kean University campus location where the employee is based to the destination.

Meals are reimbursed at \$36 per day per person for an overnight stay only. Alcohol cannot be included in the reimbursement.

Contact Brenda Dunlop bdunlop@kean.edu or ext. 73345 for questions and guidance relating to all aspects of grant administration.

Deadlines & Reminders

Save the date! Kean Research Days 2015 will be April 27—29



Sunday, January 11

UFRI Application Deadline

Tuesday, January 14

IRB Application Deadline

Monday, January 19

RTR Application Deadline

Tuesday, January 20

SpF Application Deadline

Student Spotlight



Dr. David Joiner (standing) advising students Kimberly Shanks and Roger Garcia as they investigate planets around a sun-like star in the southern constellation Hydrus

Validation of Exoplanet Models for Multi-planet Systems with Application to HD10180

During Summer 2014 Kimberly Shanks (graduate student, NJCSTM, Math Education) and Roger Garcia (graduate student, NJCSTM, Computational Math) worked with Dr. Joiner on a project related to investigating planets around the star HD10180. HD10180 is a sun-like star, and scientists think there are between 6 and 9 planets orbiting it.

Shanks investigated the radial velocity curve of HD10180 to search for evidence of orbiting planets, and was able to locate orbital fits for both the 6-7 planet model published by Lovis et al as well as the 9 planet model published by Tuomi. Shanks performed statistical tests to determine the false alarm probabilities of each planet, and determined that the 6-7 planet model published by Lovis et al was the most likely, with a significant false alarm probability for the 7th planet. Additionally, Shanks performed N-Body gravitational calculations,

using a quadrupole moment for the central star to mimic the effects of general relativity and tidal damping on the planets' orbits, and found that there were no significant changes required to orbital predictions for the 6-7 planet model, but that there were major concerns with regards to gravitational stability in the 9 planet model.

Garcia is implementing a modified Laplace-Lagrange model in MATLAB that include the effects of general relativity and tidal damping, as described by Laskar and Robutel. This will allow for a validation of our technique of using a quadrupole moment in our N-Body calculations to mimic general relativity and tidal damping. The MATLAB code has been completed, and validated against published results. Garcia will move on to applying the code to a detailed analysis of HD10180 continuing this work as part of his Masters thesis in computational mathematics.

ORSP News

Five CNAHS Faculty Attended NSF Day in Baltimore on December 8th



NSF Days provide insight and instruction on how to compete for and secure NSF funding for science, engineering and education research.

This day-long workshop provided background on the Foundation, its mission, priorities, and budget. During the day, an overview on proposal writing, NSF's merit review process, and programs that fall within the seven scientific and engineering

directorates, as well as funding opportunities that cross disciplinary boundaries were given.

Additionally, NSF representatives personally engaged in discussions with attendees about potential research proposals during the breakout sessions.

"By hearing directly from the grant officers, I was able to understand what really appeals to the NSF when it comes to fundable grant topics and the way in which grants are written and presented." Dan Fried

"I learned so much about how to write the most effective and successful grants because the program officers described the strategies and presented examples during the meeting." Juyoung Ha

"...we could ask specific one-on-one questions to our program officer, which is much better than a phone call." Miguel Mostiero

"One thing I like most is the encouragement we received on submitting proposals. I originally have the impression that NSF research grant is almost impossible to get." Juan J Li

3 Minute Thesis Competition



The competition will be conducted through tournament-style judging of the best three-minute live presentation of thesis research.

The tournament will be held as part of University Research Days, April 27.

First Prize **\$500**

Runner up **\$200**

People's Choice **\$100**

See demonstrations (3MT Showcase) and register on the ORSP website.

Government Grant Opportunities

Opportunity Title	Due Date
National Endowment for the Humanities – Media Grants	1/14/2014
NSF – Sociology	1/15/2014
NSF - Political Science	1/15/2015
NSF – Major Research Instrumentation	1/22/2015
NSF – Division of Environmental Biology – Core Programs	1/23/2015
NSF – Long Term Research in Environmental Biology	1/23/2015
National Endowment for the Arts – Big Read	1/28/2015
NSF – Law and Social Science	2/4/2015
NIH – Research Project Grant	2/5/2014
National Endowment for the Humanities – Digital Humanities Implementation Grants	2/18/2015
National Endowment for the Humanities – Summer Seminars and Institutes	2/24/2015
NIH – Academic Research Enhancement Award	2/25/2015

Foundations and Corporations

Opportunity Title	Due Date
Rubin Foundation, Samuel - Samuel Rubin Foundation Grant -Social, Economic, Political, Civil and Cultural Rights	1/2/2015
William T. Grant Foundation – Research Grants	1/6/2015
PADI Foundation – Grants for Underwater Science, Environmental Projects and Education	2/1/2015

Office of Research and Sponsored Programs

1000 Morris Ave, Union, NJ 07083
908-737-3461 tel 908-737-3369 fax

<http://orsp.kean.edu> | orsp@kean.edu

