Issue 006 | Fall 2020



The WILLIAM STATES LEE COLLEGE of ENGINEERING

Contracts and Grants Office Newsletter



DURING REDUCED UNIVERSITY OPERATIONS DUE TO CORONAVIRUS (COVID-19), THE CONTRACTS AND GRANTS OFFICE REMAINS FULLY OPERATIONAL. STAFF MAY BE CONTACTED BY EMAIL, PHONE, AND VIDEO CONFERENCES AS NEEDED. PLEASE CONTINUE TO CHECK OUR WEBSITE FOR UPDATES.

WELCOME DR. ROBERT KEYNTON as the NEW DEAN

Dr. Keynton joins the Lee College of Engineering from the University of Louisville, where he served as the Interim Executive Vice President for Research & Innovation and was Professor and Lutz Endowed Chair of Biomechanical Devices in the Department of Bioengineering at the Speed School of Engineering.

Dr. Keynton sees tremendous growth opportunities that the Charlotte region presents for engineering in areas including energy, manufacturing, transportation, healthcare, environment, and communications. Charlotte is reaching new heights, and Dr. Keynton is looking forward to the College of Engineering playing a vital role in its future development.

As Dean, Dr. Keynton sees his role to



ensure that everyone has the resources and support needed to achieve their academic, research, and career goals. He looks forward to partnering with student, faculty and staff to create an open atmosphere, enable transparent communication, and identify strategic opportunities for the Lee College of Engineering to stand out as national leaders in the field.

FY20 PROPOSAL AND AWARD ACTIVITY

The College of Engineering

PROPOSALS Submitted: 237 for \$83,139,759

AWARDS Received: 127 for \$17,451,968

Congratulations to the Research Faculty on Record Breaking Award Dollars received by the College of Engineering!

CONGRATULATIONS

49ER ROCKETRY TEAM PLACES SECOND IN NASA EVENT





The UNC Charlotte Rocketry team finished second overall and first in the payload portion of the 2020 <u>NASA Student</u> <u>Launch</u> competition. This is the third consecutive year a UNC Charlotte team has been the overall runners-up in this national event. <u>Details here</u>.



UNIVERSITY PROGRAMS & POLICY UPDATES



NEW SUBRECIPIENT FORM

The UNC Charlotte Office of Research Services & Outreach has updated the Sub-Recipient Form for FDP (Federal Demonstration Partnership) Institutions. The new sub-recipient form is shorter and easier to fill out. **Details here**

COMPLEX, LARGE, INTERDISCIPLINARY PROPOSAL PREPARATION (CLIPP)

Projects selected for participation in CLIPP will be eligible for additional pre-submission support from the Center for Research Excellence (CRE).

To be eligible for CLIPP, projects must meet one or more of the following criteria:



• Annual budget of over \$200,000 or total award dollar value over \$1 million;

• Involve senior personnel (faculty and/or staff) from two or more departments or colleges; or

• Involve two or more institutions, businesses, or organizations with UNC Charlotte as the lead. **Details here**.

CLIPP APPLICATION FORM

SPONSOR UPDATES



NSF PROPOSAL & AWARD POLICIES & PROCEDURES GUIDE (PAPPG) - Update

A Revised PAPPG (NSF 20-1) has been implemented and is effective October 5th, 2020 for proposals submitted or due and awards made on or after this date. <u>Details here</u>. Significant changes of the New PAPPG include:

- NSF will require the use of an NSF approved format in submission of the <u>biographical sketch</u> and <u>current and pending</u> <u>support</u> documents
- NSF is partnering with the National Institutes of Health (NIH) to use <u>SciENcv: Science Experts Network Curriculum Vitae</u> as an NSF approved format for preparation of both documents.

NUGGETS OF KNOWLEDGE

PRE AWARD TIPS

<u>Deadline for Proposal Submissions</u>: For proposals, the e-IPF and an administrative shell (*including final budget*) should be completed 5
Business Days prior to the sponsor deadline.



 Sponsor limitation on indirect costs requires a signed F&A Waiver from <u>the Research and Economic Development Office</u>: required 10 Business Days prior to the sponsor deadline

FACULTY RESEARCH SPOTLIGHTS

Dr. Nenad Sarunac

Research Professor, EPIC DOE recently awarded Dr. Sarunac a grant entitled "Improvement of Coal Power Plant Dry Cooling Technology through Application of Cold Thermal Energy Storage"





a total of **\$1,453,179.** The objective of the proposed work is to develop a robust and cost-effective system for improving the performance of a mechanical draft dry cooling tower/Air Cooled Condenser (ACC) for a large coal power plant. The proposed air pre-cooling system is based on the cold energy storage which involves storing low-temperature heat ("cold thermal energy") during the night when the temperature of the ambient air is low and using it to pre-cool air entering the dry cooling tower/ACC during the hot period of the day and improve its performance, which will in turn improve the performance of the power plant and increase its generation. The techno-economic analysis will be performed to determine benefits of performance improvement, costs, and their trade-offs.

Dr. Olya Keen, Associate Professor, CEE City of Charlotte recently awarded Dr. Keen a grant entitled "Charlotte Water Technical Services and Student Experimental Learning FY 19-21" This award has a **two year duration** with a



total of **\$259,515.** Work will be performed in support of various efforts by Charlotte Water and will involve graduate students performing modeling and analytical testing and undergraduate students working on a variety of experiential learning projects. **Dr. James Bowen is the Co-PI** for this project.

READ MORE ABOUT DR. KEEN'S RESEARCH

Dr. Jacelyn Rice-Boayue, Assistant Professor, ETCM California Department of Pesticide Regulations recently awarded Dr. Rice-Boayue a grant entitled "Quantifying California Municipal Wastewater Discharge Contributions to Streams for Pesticide Source Modeling"



This award has a **two year duration** with a total of **\$149,916**. Knowledge of relative contributions of pesticides to California surface waters is needed to support ongoing source control and mitigation efforts at California's Dept. of Pesticide Regulations (CDPR). Recent studies have quantified pesticide concentrations in wastewater treatment plant (WWTP) discharges, however, data regarding statewide contributions is limited. This project aims to serve as a step towards integrated pesticide assessments within California surface waters by evaluating WWTP discharge contributions and pairing results with DPR's pesticide and watershed models to determine relative pesticide contributions from urban flows and agricultural runoff.

READ MORE ABOUT DR. RICE-BOAYUE'S RESEARCH

Dr. Mariya Munir, Assistant Professor, CEE UNC Chapel Hill (flow through funding from NC Policy Collaboratory)

awarded Dr. Munir a Research Grant entitled "Tracking SARS-CoV-2 in the Wastewater across a Range of North Carolina Municipalities"

This award has a **seven month duration** with a total of **\$60,000.** The main objective of this project is to evaluate whether wastewater testing can act as early evidence of SARS-CoV-2 in North Carolina. The presence of RNA of SARS-CoV-2 has recently been documented in raw wastewater. As



wastewater contains the feces and urine of COVID-19 infected people, testing of wastewater can present near real-time outbreak statistics. Such a tool could be of immense significance as wastewater testing detects even the asymptomatic COVID-19 infected people who would most probably not get tested as they show no symptoms. The results of this study could provide critical monitoring of transmission at the community level and contribute valuable information to the State of North Carolina on the presence and persistence of SARS-CoV-2 like viruses.

READ MORE ABOUT DR. MUNIR'S RESEARCH

UPCOMING EVENTS AND CONFERENCES

Research Administration Conferences

SRA International

Virtual Annual Meeting 10/5/20 - 10/30/20

Details here

NIH REGIONAL SEMINAR

A virtual, NIH Regional Seminar (NIH funding and grants administration) will be held during the week of Oct. 26-30, free of charge. Registration information is **here**.

Have News To Share?

Please send any news, awards, photos, etc. along to <u>Joanne Zhang</u> to be included in Contracts and Grants Office newsletter.

JOIN OUR MAILING LIST

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