



Rowan College at BURLINGTON COUNTY

Spotlight on the Division of Science, Technology, Engineering and Mathematics (STEM)

December 2019

Message from the Dean

It is with great pleasure that I express to you my season's greetings and good wishes. May your Christmas and New Year be filled with joy, rest and awesomeness. As you are looking forward to another amazing new year, I want to take this opportunity to wish every member of the STEM team a heartfelt thank you for a wonderful year filled with challenges, pride and wonders. Some of the highlights from this last year are as follows:

- Renewed focus on promotion, access and quality development and implementing many new initiatives, making us stronger as a division.
- Created the new 3+1 Mechanical Engineering Technology (MET) and Electrical Engineering Technology (EET) programs with a strong enrollment number of 84 initial freshmen, well exceeding the original projections.
- Hired some amazing new faculty and staff of diverse backgrounds, fueling the division's diversity goals.
- Celebrated Black History Month and Science Slam that saw record numbers in community participants.
- Completed an important number of scholarship-backed activities, such as the student research poster presentations, conference presentations, publishing, curriculum innovations and grants.
- Engaged the community through new partnerships with Victory FM 1460

WIFI radio, Restauration Station Christian church and Abundant Life Fellowship church.

- Started a textbook drive, faculty and staff-driven, with over 150 books collected and donated to ONG Boyardd/Afrique to fight illiteracy in Africa.

All these amazing things that happened in the division during 2019 are just the tip of the iceberg. As we are looking to a new year, I wish for students to have ACCESS to the best educational experience, to PROMOTE an environment that is conducive to amazing learning and to ensure the highest level of QUALITY education to all.

Merry Christmas and Happy New Year!

Dr. Edem G. Tetteh, Dean

P.S. If you missed any previous issues of the newsletter, check [Online](#) and then [Update](#) your contact information so you don't miss future issues!

Inclement Weather

Predictions for the upcoming winter season are for higher than normal snowfall amounts. In the event of an emergency school closing, staff and students will be notified via the RCBC messaging system. Please make sure that your emergency contact information is updated in order to receive announcements from the college. Address and preferred phone information can only be changed **in person** by visiting the Human Resources Office in Evans Hall and completing the required [form](#).

Is **EFFICIENCY** one of your 2020 New Year's Resolutions???

Check these two new features in Gmail!

- Gmail [Delay Send](#) lets you schedule when your emails go out – down to the minute. Built into your Gmail inbox, it's a simple, fast and unobtrusive email scheduling tool.
- [Snooze](#) deals with messages when you need them, and prevents any from falling through the cracks.

Barons Best!



Congratulations to STEM Academic Secretary, Pat Zanichelli, for being selected as a Barons Best! Pat has served as an academic secretary to the dean in the Science, Technology, Engineering and Mathematics Division for the past 4 years. Prior to her employment at RCBC, Pat worked in the Lumberton school system for nearly 18 years. Anyone who knows Pat understands why

she deserves the recognition of Barons Best. Thanks Pat for always being ready with a smile and hug if needed! Congratulations!

Welcome Terri!



The Stem Division welcomes Terri Zobel, our new Adjunct and Academic Coordinator! Terri has both a BS in Individual Studies, Communications and

Entrepreneurism Concentrations and an MS in Creativity and Innovation from Drexel University, Philadelphia, PA. Terri brings 20 years' experience with her including Adjunct, Assistant to the Dean, Director of Programs & Services and Program Manager. Terri is an innovative higher education professional with extensive skills in creation, delivery and administration, as well as entrepreneurial education and business management. Welcome Terri!

Department Updates

Computer Science

SRS Team Examines “Weather Data Correlations and Climate Change”

Weather variations and shifts appear more dramatic and severe, with storms having a greater veracity with high winds and drenching rain. The high pressure masses following the low pressure are accompanied by noticeably stronger winds and more dramatic changes. The Computer Science SRS Team, Johannah Stevenson, Cole Bodine, Matthew Rudderow, Jesse Rosenthal and Thomas Nardello are working with Professor Simber, and are examining twenty (20) years of data obtained from the National Weather Service (NOAA) and accumulated through readings at the Automated Weather Observation System (AWOS) at South Jersey Regional Airport in Mount Holly, NJ. The goal is to ascertain correlations and relationships between sea-level pressure data and other atmospheric conditions, as well as trends in pressure changes.

Are highs higher and are lows lower? Is the rate of change from high to low and low to high accelerating? This will be analyzed and expanded upon through this research and analysis.

Submitted by Christopher Simber

Cybersecurity

Cybersecurity students **Shanni Prutchi** and **Jeff Wood** presented “Adventures in Building Secure Networks from Blockchain Transactions” at the Hackaday Superconference on November 16. Shanni and Jeff were part of the Spring 2019 SRS Cyber Ops project team that included **Christopher Hendrix**, **Christopher Hurley**, **Dalton Gravott**, **Jordan Jiosi** and **Hannah**

Marthaler. The team designed and built a message authentication system on two defunct servers at RCBC. Congratulations team and mentor, **Paul Warner!**

Culinary Arts



RCBC's adjunct instructor, **Chef Diane Fehder**, debuted on November 28 in the Netflix baking competition, SugarRush. Chef Diane and her teammate, Chef Toni Lynn Dickinson, competed for the \$10,000 prize by incorporating gingerbread into their creation. To find out if the judges liked it, please check out the episode "Here Comes Santa Claus" on Netflix's Sugar Rush Christmas!

Electrical Engineering Technology

Instructor **Jeff Van Dyne** is pleased to report that the following Electrical Engineering Technology students have gained full or part time employment at Lockheed Martin Corporation as Electrical Engineering Technologists.

- **Roberto Perez**, full time at LMCO, AS.EET from RCBC May 2019
 - **Stephen Emers**, full time at LMCO, pursuing EET 3+1
 - **Kevin Chindian**, Summer intern at LMCO, pursuing AS.EET
 - **Shane Penney**, Summer intern at LMCO, pursuing AS.EET
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Fashion Design

Portraits and Fashion

Join us from **December 5, 2019** until **January, 26, 2020**, as we present: Portraits and Fashion, a celebration of photography and fashion programs at RCBC at **Historic Smithville Park's Worker's House Museum & Gallery**. This exhibit invites all to experience a unique look into the current perspectives of our region's culture through student and faculty collective works.



Mechanical Engineering Technology

Representatives from Educational Solutions installed new equipment for the new Mechanical Engineering Program. Three trainers, mechanical, hydraulic and pneumatic, will be ready for faculty training sessions in January 2020.



ATMAE Update



Dr. Edem Tetteh, Dean of STEM, and Paul Warner, the Chair of the Department of Information Technology and Computing attended the 2019 ATMAE Annual Conference in Charlotte, NC on November 6-8, 2019. The primary purpose of ATMAE accreditation is to encourage and recognize the attainment of certain professional goals and standards for technology and to encourage continuous quality improvement through a voluntary and comprehensive evaluation process. (www.ATMAE.org)

The following STEM programs are preparing their self -study for ATMAE accreditation site visit between March 1st and May 1st, 2020:

- Computer Science (AS.CSE)
- Computer Information Systems (AS.INF)
- Computer Management Information Systems (AAS.MIS)
- Cybersecurity (AAS.IAC)

Faculty Success Stories

Reviewers and board members recognized mathematics Adjunct, **Dr. Durgesh Sinha's** article, "Mathematical Model of Zoonotic NIPAH virus in South-East Asia region" as BEST WORK in AS Microbiology journal from Acta Scientific Open International Library.

Biology Adjunct, **Brad Scenci**, presented “Antibody Hunters: Adventures in Biotech and Drug Discovery” at the seminar series, *Why Science Matters*, on October 19. Brad is an RCBC graduate and is currently working at Integral Molecular as a Senior Research Associate. To view previous lectures organized by Why Science Matters, click [here](#).



Jaclyn Taylor, physics adjunct, attended the world's largest conference and career fair for women, the Society of Women Engineers' WE19. The conference took place in Anaheim, California on Friday, November 8. Jaclyn (left) presented alongside her former classmate, Nishanthi Perera, on the topic "Study Buddies and Beyond: Unlocking the Power of Female Friendship."



Prachi Naryan(right), RCBC and RCSJ adjunct, and her daughter, Chinmayee(second from right), a high school student at RCSJ, visited the Coriell Institute of Medical Research on November 15 as part of the "Women in STEM" program at RCSJ, Sewell, NJ. The Assistant Dean of STEM, Professor Linda Maher (third from left) who is a former RCBC adjunct, heads the program.

Student Spotlight



Kayleigh Scassero has always loved to bake. In 2015, she transferred from Liberty University to RCBC to fine-tune her skills and to learn new ones, in order to pursue her dream of becoming a pastry chef. In high school, she qualified for the STARS program and decided to take the opportunity for free tuition offered by RCBC. As an added bonus, the location of the Culinary Center was convenient to her Eastampton home.

In May 2018, Kaleigh graduated from RCBC and participated in the Disney

College program in spring 2019. Kayleigh explains, "I loved working there and when I came home I couldn't shake the feeling of wanting to go back."

After looking for employment for several months, she was waitlisted for a pastry cook position at Disney World and received an offer two months later for a full-time position. She now holds the title of Pastry Cook 1 and is working in the Magic Kingdom making desserts. Kayleigh credits Chef Eric Boerner for always pushing her to do better and think outside the box. "He was hard on us at times but that was only because he knew we could do better if we worked for it." Congratulations Kayleigh on your pathway to the most magical place on earth!

How RCBC Influenced One Man's Career Choice

It was in the spring of 1972 that Mr. Schaible, my chemistry teacher at Rancocas Valley Regional High School, told me about a one-day, hands-on workshop on Liquid Chromatography at Burlington County Community College. I jumped at the opportunity to go! Liquid Chromatography sounded mysterious and exciting to me (it was and still is). Though so long ago, I still remember the important parts of that day. I am grateful I had that opportunity, an opportunity provided to me by a chemistry teacher who cared and a college that looked to the future.

There were many things that influenced my choice of a college major, but that one-day lab played a big part in my decision. I went to college and earned my degree in Chemistry. I've worked as a research chemist in polyurethane coatings (discovering wonders in people and polymers), but for most of my career I've been the pastor of four different Presbyterian Churches (*many* stories there!). It's good to pass on the care we've received from others, and I know I've been blessed doing just that. I hope you'll find ways to do the same!

Submitted by: Pastor Michael Burkley

Holiday Fun in STEM

The STEM division held an Ugly Sweater contest at the last division meeting of

the year. And the winner is.....**Dr. Elizabeth Price** for her interesting creation.





STEM at RCBC

Striving to meet STEM's PAQ

P- Promotion

A- Access

Q- Quality

Send any newsworthy articles to staylor@rcbc.edu to be included in the next newsletter.

SCIENCE and TECHNOLOGY: YOUR FUTURE, OUR PASSION

Mission— is to create an exciting, engaging, and enriching learning environment and opportunities using the unique talents of faculty and staff.

Goals:

1. Create a high quality educational experience to STEM students.
 2. Empower students to excel in STEM fields at the local, regional, national and global stage.
 3. Promote excellence in teaching, learning and service to community.
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