



NEWSLETTER

December 2024

Chemistry and Physics Department, Oxendine Science Building – Room 3101, Pembroke, NC 28372
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Chemistry and Physics Graduates

Congratulations to our graduates. Job well done!

College of Arts and Sciences Chemistry and Physics Department



<i>Bachelor of Science</i>	Dominick Alan Burgess
<i>Bachelor of Science</i>	Kegan O’Conner McDonald
<i>Bachelor of Science</i>	Kimberly N. Yard
<i>Bachelor of Science</i>	Edward Lynn Jeffries
<i>Bachelor of Science</i>	Sara Elizabeth Ormsby
<i>Bachelor of Science</i>	Corey Wayne Jeffries, Jr.
<i>Bachelor of Science</i>	Micah Glenn Ferguson
<i>Bachelor of Science</i>	Avery Walker
<i>Bachelor of Science</i>	Anastasia Zakharova

Chemistry and Physics Graduate Social

The 2024 Fall Graduate Social was December 4, 2024. It was a great turn out with students, faculty, and staff. Everyone enjoyed the good fellowship and great food.

The BBQ chicken, pulled pork with sauce, baked beans, slaw, rolls, grilled seasoned tofu, desserts, and drinks was served for lunch and catered by Sodexo.

The graduates for this semester are: **Dominick Alan Burgess, Kegan O’Conner McDonald, Kimberly N. Yard, Edward Lynn Jeffries, Sara Elizabeth Ormsby, Corey Wayne Jeffries, Jr., Micah Glenn Ferguson, Avery Walker, and Anastasia Zakharova.**

Congratulations to our graduates. Job well done!



UNC Pembroke's Rocket Team Competing in the First Nations Launch Competition

Faculty Advisor: Dr. Steven Singletary

The First Nations Launch (FNL) is a rocket competition specifically for students at Tribal Colleges and Universities (TCUs), Native American-Serving Nontribal Institutions, or American Indian Science and Engineering Society chapters. The UNC Pembroke team will design and launch a high-power rocket, building engineering and rocketry skills through the challenges. The program offers resources, travel awards, and certification opportunities to support participants in this aerospace-focused competition.



The UNC Pembroke's Rocket Team has previously participated in competitions and are returning to build upon their successes.

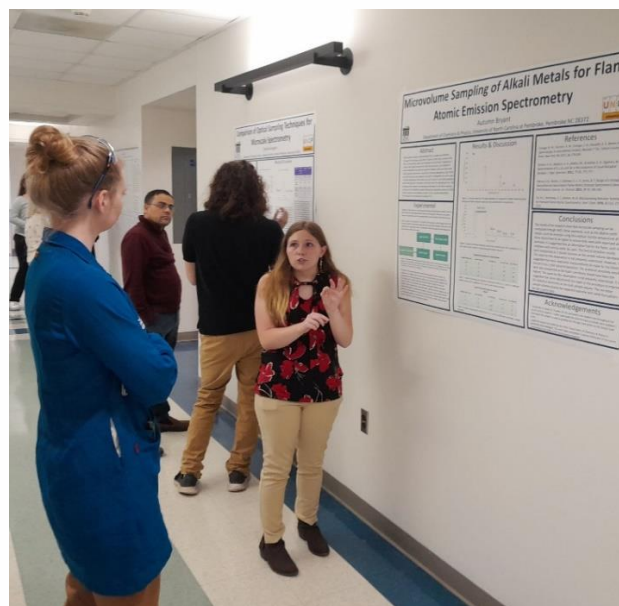
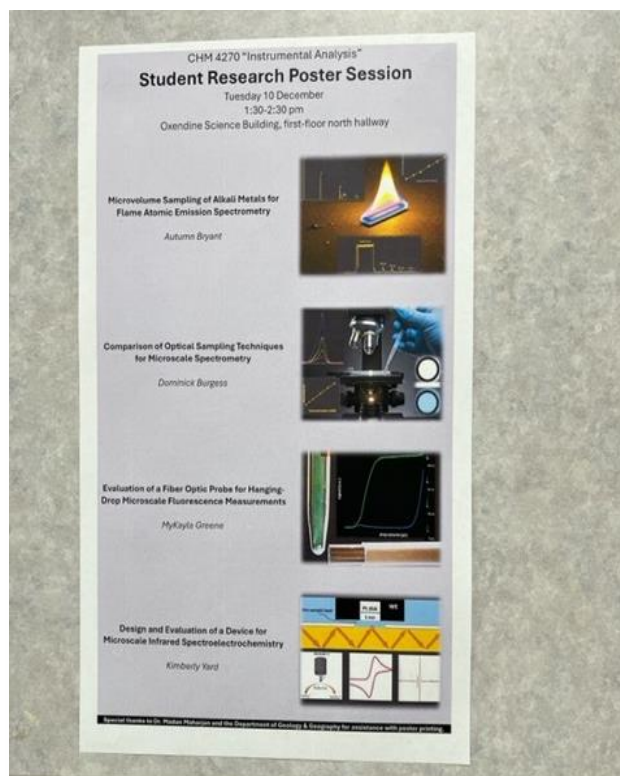
You can find the link [HERE](#) to view other NC Space Grant Recipients of the 2024-2025 Team Experience and Competition Award.

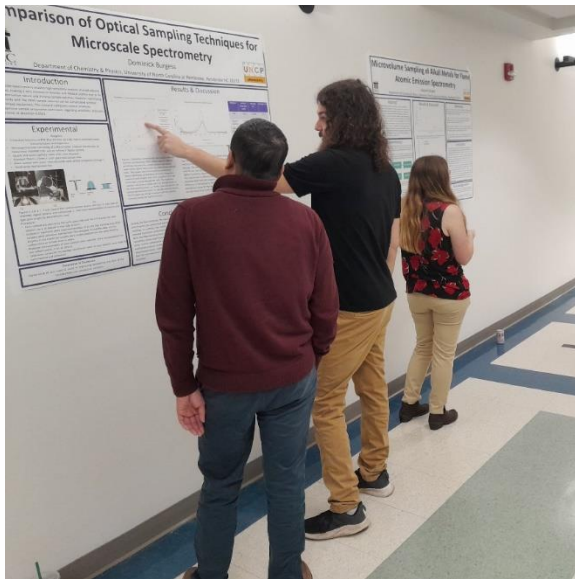
CHM 4270 Student Research Poster Mini-Symposium, Fall 2024



Paul A. Flowers, Ph.D.

On December 10, 2024, Dr. Paul Flowers' students in his Instrumental Analysis class presented their research posters. The session took place at 1:30 p.m. by the first-floor north hallway in the Oxendine Science Building. Beverages and snacks were served for the optional enjoyment as everyone viewed the poster presentations summarizing results of the CUREs (course-embedded research experiences) of this small group of chemistry majors. Special thanks to Dr. Madan Maharjan and the Department of Geology & Geography for assistance with the printing of posters.





3D Printing Workshop



Dr. Steven Singletary held an Introduction to 3D printing workshop at the HUB on December 12 from 9 am to noon for the staff from NSG (Nippon Sheet Glass Company -- a local glass manufacturer). This workshop is designed for people that may have heard of 3D printing but are not sure what printers are capable of or know how to get started.



Funded by
U.S. EDA

Biomanufacturing Training

THE UNIVERSITY OF NORTH CAROLINA AT PEMBROKE

HBCU/HAIU Coalition

The third-in-a-series of regional bioprocessing training programs in North Carolina will help students and residents prepare for entry level positions in the biopharmaceutical manufacturing. The two-week, hands-on short course was offered for free from December 9 - 20, 2024, for 11 participants. Training was held at UNCP's Biotechnology Research and Training Center, (COMtech). This new training is part of the Accelerate NC – Life Sciences Manufacturing initiative, funded by the U.S. Economic Development Administration's Build Back Better Regional Challenge (BBBRC), which aims to build strong regional economies and support community-led economic development nationwide. NCCU, home to the Biomanufacturing Research Institute and Technology Enterprise (BRITE) and leader of the HBCU/HAIU Coalition, worked closely with UNCP which was the first university in the coalition to offer bioprocessing training. The coalition also includes Elizabeth City State University, Fayetteville State University, Livingstone College, Saint Augustine's University and Winston-Salem State University. Other coalition members are expected to launch similar trainings in 2025. "Accelerate NC is all about helping underserved populations develop new skills to prepare for job opportunities in life sciences manufacturing that may have seemed unobtainable," said William Smith, NCCU-BRITE director of development. "UNC Pembroke is taking a critical first step for the HBCU/HAIU coalition in building an equitable talent pipeline, with many more training opportunities to come." BBBRC funding helped purchase equipment needed to teach upstream and downstream bioprocessing as well as provided the funding to conduct "train the trainer" events where faculty could become trainers. UNCP training applicants must be 18 years of age or older and must have a high school diploma or GED. Before starting the short course, students must complete five online modules. Upon completion of the two-week free

course, students will earn several certifications in biomanufacturing, including an advanced certificate in biopharmaceutical manufacturing.

Special “thanks” to Dr. Ashley Allen, UNCP campus coordinator and the program, which is funded by BRITE Institute, NCCU, under the leadership of Mr. William Smith, Ms. Ermine Cupid-Hastings, Dr. Rob Onyenwoke, and Ms. Ginger Smith.



Students News



Malia Locklear has finished her first semester at Campbell University's Class of 2028 Pharm D. program. Malia received a full scholarship to the university. After finishing school, she would like to do training in infectious diseases.