



## *NEWSLETTER*

### August 2023

Chemistry and Physics Department, Oxendine Science Building – Room 3101, Pembroke, NC 28372  
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### 2023 NSO Freshman Orientation



Saturday, August 5, Dr. Steven Singletary (Clinical Assistant Professor) participated in the Freshman Orientation in the UC Annex from 7:30 to 10:00 a.m. The orientation went well for this event.

Thank you for your commitment and dedication, Dr. Singletary, in making the successful event and experience for our students and their family members.

### 2023 NSO Transfer Orientation



Saturday, August 5, Dr. Siva Mandjiny (Chair and Professor) and Dr. Tikaram Neupane (Professor) participated in the Transfer Orientation. The orientation went well. There were many students and parents interested in the Chemistry and Physics Department. Thank you for your commitment and dedication, Dr. Mandjiny, in making this a successful event and experience for our students and their family members.



### New Physics Faculty – Dr. Uma Poudyal



Dr. Uma Poudyal joins the department August 7, 2023. She is the new faculty, Visiting Assistant Professor of Physics. Dr. Poudyal earned her Ph.D. in Physics from University of Wyoming, in Quantum Dots for Solar Cell Application. She will be teaching both lectures and labs of College Physics I and lecture in Classical Mechanics.

Welcome, Dr. Poudyal, to the Chemistry and Physics Department.

## Department Meeting and Lunch – August 10, 2023

Faculty and staff met for the 2023 Fall department meeting. Lunch was served afterwards. It was great to see everyone back from their summer vacations.

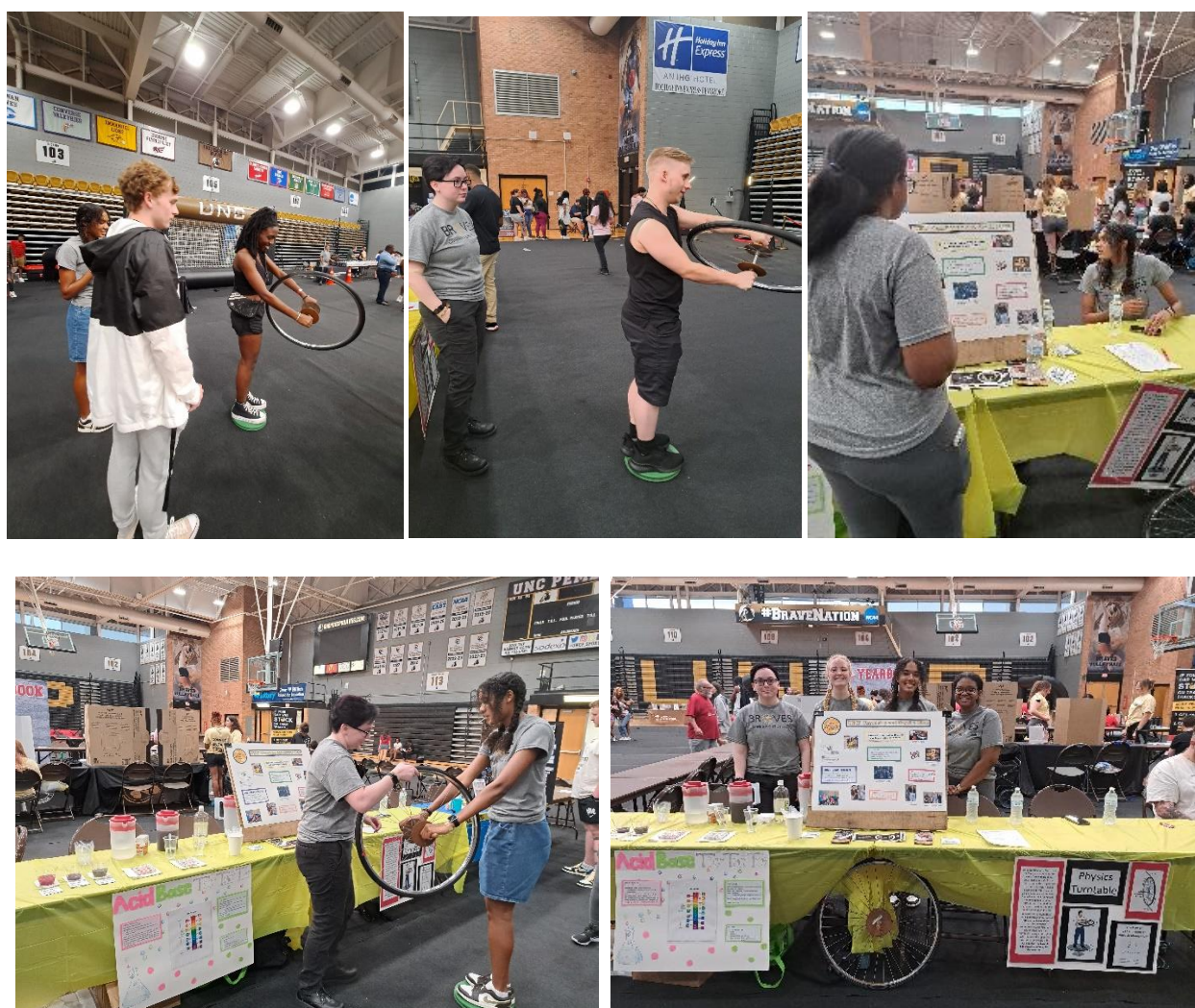






## Chemistry and Physics Club Update for August

The Brave Nation Bash was Tuesday evening, August 15. Shout out to Tiffani Roberts, Kae Burns, and Nevaeh Roverato for all your work at the event! Our table seemed to be a hit with the visitors. One of the photographers mentioned that we were the most interactive table! (photos below). As a recruitment effort, it was very successful given the less than anticipated turnout due to bad weather. The Interest Meeting Reminder sheet has at least 10 individuals, with a third being Applied Physics Majors. More recruitment efforts will be made at tutoring presentations as well as a fundraising event that will be discussed later. But as always, our members are our best recruitment tools, so if you know anyone who would be interested in joining, invite them to a meeting!





**UNGP Chemistry and Physics Club Presents:**

**Cake Back and Relax with Cake Pop Bi Te S**

83	52	16
208.98	127.6	82.08

When: Tues. Aug. 28th, 10am - 2 pm

Where: UC Mall

**Pre-order:**

half dozen for \$5  
dozen for \$10

*Pre-orders available the week prior to event. Contact club or member for more info*

**On the Day of:**

\$1 each

*Allergy notice:  
coatings contain  
Almonds*

**Options:**



Red Velvet With  
Vanilla Coating





Vanilla With  
Vanilla Coating



Chocolate With  
Chocolate Coating

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Calling All Students interested in Chemistry, Physics, and STEM Outreach!

JOIN US FOR THE...  

**Chemistry and Physics Club**

**INTEREST MEETING**

**Come check out the fun!**  
 August 29th  
 4pm  
 Ox. Room 3246  
**ALL MAJORS WELCOME!**

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**BREAKING NEWS**

**New Event Series!**

Speaker Series Presented by the UNCP Chemistry and Physics Club

**Read about our wonderful Guest Speakers** >>>>>>

Please join us in-person or virtually to hear from experts in STEM fields on their experience, innovations in STEM and employment opportunities!

**ALL STUDENTS WELCOME!!**

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**Fall '23 Speaker Series Schedule**

Each of the following at 4pm  
 In-person in Ox. 3246 or via WebEx  
 (Link shared on story on the day of the event)

**Sept 5 Dr. Stephanie Bolyard**  
*Senior Engineer to the Assistant Secretary at NC Dept of Environmental Quality*  
 Speaking on Her Experience as an **Environmental Engineer** and the Evolving Understanding of **PFAS Compounds**

**Sept 26 Lindsay Mitchell & Jared Castellani**  
*Forensic Toxicologists at South Carolina State Law Enforcement Division*  
 Career Opportunities and Responsibilities in the Field of **Forensic Toxicology**  
*Co-hosted by the UNCP Criminal Justice Club*

**Oct 17 T.J. Osborne**  
*Federal Policy Manager at Dream.Org*  
 Careers in the **Clean Energy Industry**  
*Co-hosted by the Greener Coalition*

**Nov 7 To Be Announced!**  
**STAY TUNED FOR MORE INFO**

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## 2023 End of Summer Research Symposium



Dr. Rachel Smith, Director, host the UNCP RISE Program for the annual **End of Summer** Research Symposium on Friday, August 25<sup>th</sup>, from 2:30 to 5 pm in the UC Annex. Please join us for presentations from our students on the research and creative endeavors they completed this summer. We hope to see you there!

Rachel B. Smith, Director  
UNCP Research Initiative for Scientific Enhancement (RISE) Program

### 2023 End of Summer Research Symposium

Come see UNCP Students present the research they conducted this summer!

**When: August 25**

**2:30-5pm**

**Where: UC Annex**

**Schedule:**

2:30pm Welcome and Opening Remarks

2:45pm Keynote Address

Carlisha Hall (UNCP BS Environmental Science 2016)  
Ph.D. Candidate, University of California-Merced  
School of Public Health

*"Oh, the Places You'll Go!"*

3:30-5pm Poster presentations



## Students News

### UNCP Student Gains Invaluable Experience from University of Bath Internship



*Kimberly Yard (far left) participated in a summer research internship at the University of Bath*

Kimberly Yard, a senior chemistry major at UNC Pembroke, recently returned from the United Kingdom, where she participated in a nine-week research internship at the University of Bath.

Yard was among seven college students nationwide selected for the International Research Experiences for Undergraduates (REU) program funded by the National Science Foundation.

“During my time in Bath, I was tasked with performing and developing my skills in computational chemistry and learned to use methods such as molecular dynamics to understand the movement and mobility of molecules of interest ultimately,” Yard said. “This was a once-in-a-lifetime experience and holds an immense amount of educational value that I wouldn’t have had the opportunity to do otherwise.”

Yard said she returned from the internship with a better understanding and appreciation of chemistry.

“I see how the different fields of chemistry are interconnected, and I can develop and begin my learning journey in computational methods,” Yard said.

Upon graduation, Yard plans to pursue a Ph.D. in chemical engineering.