



President's Letter

By Dr. Michael Kingston, Elon University

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Dear fellow members and supporters of the North Carolina Academy of Science,

I hope this letter finds you well. I attended my first NCAS Annual Meeting in 1996. Over the years, I have served in a variety of positions on the Board of Directors and now I am honored to serve as your President.

The last three years of the pandemic have produced difficult challenges for everyone and altered the "business as usual" pattern of our lives. In response to the Covid-19 crisis, the Academy was forced to cancel its planned 2020 annual meeting for the first time since we began meeting in 1902. Thanks to the tireless dedication and hard work of the Local Arrangements Committee at Le-noir Rhyne University, the Academy held its first on-line virtual annual meeting in 2021. Last year, the Academy restarted our in-person annual meeting at Campbell University using a hybrid format so that poster and oral presentation sessions included remote participants who were unable to travel to Buies Creek. Despite the hardships brought on by the pandemic, I am happy to report that the Academy has successfully weathered the storm and that our future is secure.

I am so grateful for the Board of Directors (BOD), the previous and current Local Arrangements Committees, the Editorial Board, the CASCAS officers, and all of our faithful members who have worked to keep the Academy, and our flagship journal, operating through these uncertain times. I am happy to report that the financial state of the Academy is on solid ground due to the responsible stewardship of the Finance Committee and the fundraising efforts of the local arrangements' committees. With a renewed sense of our strength and unity, I look forward to a bright future as we continue our mission to "encourage the advancement of science within the state of North Carolina by promotion of scientific research and by the fostering of education in the sciences."

Our 118th Annual Meeting is scheduled on March 31 and April 1, 2023 at East Carolina University in Greenville, NC. The Friday evening poster session will be hosted in the new Life Sciences and Biotechnology Building. So, please invite your colleagues and students to join us in Greenville for what will be a terrific annual meeting.

If you are not yet a member of the Academy, I would like to encourage you to peruse our website (<https://www.ncacadsci.org/>) to see all of the benefits that come with being a member. If you are a member, then please share your knowledge and experience of the Academy with colleagues so that we can increase our membership. (*continued p2*)



Dr. Michael Kingston,
Elon University

President's Letter

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In addition, I would like to use this opportunity to invite our members who are interested in volunteering as committee members, editorial board members and peer reviewers to contact me about currently vacant positions as well as offices that will open in March 2023.

I look forward to meeting you all at our next annual meeting at East Carolina University on Friday, March 31 and Saturday, April 1, 2023.

Yarbrough Winners 2022

Report By Dr. David Cartrette, Pfeiffer University

The Yarbrough Research Grants program supports undergraduate research. Top awards may receive as much as \$500 or more. Awardees earn more than just funding for their research. Receiving a grant is an honor that tangibly demonstrates your critical thinking and communication skills and looks great on anyone's resume!

Join us in congratulating the winners of this cycle of grant recipients:

Anna Braaten	Campbell University	Mentor: Dr. Stephanie Mathews	Using Transposon Mutagenesis to Identify Genes in <i>Lactococcus lactis</i> Required for Biofilm Formation
Caleb Fluno	Lenoir-Rhyne University	Mentor: Dr. Carly York	The Effects of Cobalt Chloride and Zinc Chloride on the Lateral Line and C-Start Reaction on <i>Danio rerio</i>
Alexander Gehron	Catawba University	Mentor: Dr. Carmony Hartwig	<i>Pleurotus ostreatus</i> Mycoremediation of Mercury in Contaminated Soils
Sarina Maybank	Fayetteville State University	Mentor: Dr. Danielle Graham	Analyzing the Effects of Nanoparticles to Combat Biofilm-Forming and Antibiotic-Resistant Bacteria
Heather McDowell	Lenoir-Rhyne University	Mentor: Dr. Marsha Fanning	Effects of Oocyte Maturation in Zebrafish (<i>Danio rerio</i>) When Exposed to Endocrine-Disrupting Chemicals
Tanner White	Lenoir-Rhyne University	Mentor: Dr. Judy Moore	The Effect of Methotrexate on Caveolin-1 Regulation in the Regeneration of <i>Lumbricus variegatus</i>

Save the Date—Annual Meeting 2023

From Dr. Eric Anderson, East Carolina University

The 119th Annual Meeting of the North Carolina Academy of Science will be hosted by East Carolina University in Greenville, NC, March 31st - April 1st 2023. The theme for the 2023 meeting will be Careers, and we will have representatives from a variety of graduate and professional programs, as well the biotechnology and pharmaceutical industry to meet with you to discuss the career paths available for students with scientific backgrounds. Information on the meeting will be posted on our [Annual Meeting page](#).



Welcome to the new CASCAS Leadership board!



Anthony Herring,
East Carolina University



Tamera Hutchinson,
Campbell University



Ainsley Shan
Elon University

CASCAS Board 2022-2023 (from left to right). President: Anthony Herring from East Carolina University; Vice President: Chase White from Lenoir-Rhyne University (not pictured); Secretary: Tamera Hutchinson from Campbell University; Historian: Ainsley Shan from Elon University

CANCAS Fall Annual Workshop—Saturday, November 5th

Report By Dr. Laura Reichenberg, Lenoir-Rhyne University

The Undergraduate Research Workshop of the Collegiate Academy of the NC Academy of Science (CANCAS) will be held on Saturday, November 5th at Pfeiffer University. This is a great event to promote networking and ask questions to a panel of representatives from various programs (Ph.D., P.A., D.O, etc.), followed by breakout sessions on resume development, building a professional social media presence, reading, and presenting in science, and how to communicate effectively through scientific oral and poster presentations.

Join us for the
Collegiate Academy
of the
North Carolina
Academy of Science
Since 1902
Annual Workshop

Hosted on Saturday, November 5th, 2022
by Pfeiffer University

Workshop attendance is included in the CANCAS membership. To become a member of CANCAS follow the link to JoinIT: <https://www.joinit.org/o/north-carolina-academy-of-science>. Individual membership is \$15 and faculty club advisors may sign up all individual students as a CANCAS Group for \$100. Renew your group membership for this discount!

Welcoming New NCAS Board Members

Welcome to our first-time board members for the 2022-2023 Academic Year: David Parker (Education Committee Chair), Anthony Herring (CANCAS President), Ryan Brandt (CANCAS Co-Director). You can see the full list on the *Board of Directors* page under *About* in the menu of our [website](#).



Anthony Herring,
East Carolina University



Dr. David Parker,
Elon University



Dr. Ryan Brandt
Elon University

Call for Bryden Award

Report by: Dr. Helen Caldwell, Lenoir, Rhyne University

The Robert R. Bryden Research Award grants up to \$1000 to support graduate research, equipment and/or expenses related to attendance of scientific meetings. The application deadline is typically in early March. Although the Bryden Committee did not receive any proposals this year, they are gearing up for the next grant cycle and want to hear from you. Sirena Hargrove-Leak, Associate Professor of Engineering at Elon University, will be joining Helen Caldwell, Associate Professor at Lenoir-Rhyne University, on the committee. Start developing your research plans now so you can secure next year's award! They are looking forward to receiving your proposal.

Announcing Genomics Workshop

Report by: Dr. Marisol Santisteban, UNC Pembroke

Do you want to bring genomics into your classroom/lab? Do you feel you do not have the expertise/resources/time to do that?

This is your opportunity!

The [Genomics Education Partnership \(GEP\)](#), Carolinas Regional Node is organizing a ***hands-on training workshop*** on **DECEMBER 14-17, 2022 at UNC Pembroke**

This workshop will introduce you to the GEP consortium and will provide you with the practical training and tools to start using genomics with your students as soon as next semester. You can use the GEP materials to teach introductory concepts of genetics/molecular biology all the way to involve your students in authentic research, either individually or as a CURE. GEP materials and research projects have been used by faculty teaching all levels of undergraduate biology at Community Colleges, Primarily Undergraduate Institutions, and Research Universities.

The start time on Dec 14 will be in the evening (5-6pm) and we'll end at 12 noon on Dec17. All expenses (food, lodging, transportation are covered). Everyone is welcome to apply. In particular, we are interested in recruiting faculty from MSIs, Community Colleges, and PUIs. Please, spread the word to colleagues who may be interested.

Stay tuned for the application link. In the mean time, please don't hesitate to reach out with any questions you may have about this training (maria.santisteban@uncp.edu). The [About](#) page of the GEP website also has additional basic information about our program and the [Regional Nodes](#) page has more information about the nodes' activities. We hope you can join us!

Thank you

Thank you to Meredith College, the headquarters of the North Carolina Academy of Science and site of our home office!



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“Like” us on Facebook and follow us on Twitter (@NCAcadofSci) to get the latest updates and information on what’s happening at your North Carolina Academy of Science!



The **objective** of the North Carolina Academy of Science is to “encourage the advancement of science within the state of North Carolina by promotion of scientific research and by the fostering of education in the sciences”. The North Carolina Academy of Science meets these objectives by...

- Publishing a peer reviewed scholarly journal, the *Journal of the North Carolina Academy of Science*.
- Fostering and encouraging student involvement in the sciences through support of the Collegiate (CANCAS) and Student Academies (NCSAS).
- Promoting interactions among scientists and students throughout North Carolina.
- Providing a forum for exchange of ideas for solving issues important to North Carolina.

The Academy members include individuals from academia, industry, government, and all others who support the objectives and goals of the Academy.

North Carolina Academy of Science

Our Mission

The North Carolina Academy of Science promotes public appreciation of science, science education, scientific research and a meaningful role for science in public policy.

Our Goals:

Promote public appreciation of science

- Partnership with Science Centers
- Public Lecture Series
- Newsletter

Promote science education

- NCAS Webpage
- Academic Lecture Series
- NCAS Publications: Journal, Educational Publications
- Student Academy - Middle & High School

Promote scientific research

- Yarbrough and Bryden Research Grants
- CASCAS Undergraduate Research Workshop
- Presentation Opportunities at Annual Meetings
- Journal of the North Carolina Academy of Science

Promote science in public policy

- Symposia
- News Releases
- Position Statements
- Interactions with Public Officials

