Hello! As you probably are aware, we are well underway with BIOME 2024 planning, including building a program that moves educators “Beyond the Content”. Along with exceptional networking opportunities, this year’s program delves into real-life, impactful topics affecting educators and students such as climate change, pandemics, artificial intelligence, water quality, food security and health disparities.

We need your help. I am extending an invitation to present your work at this year’s BIOME. There are multiple ways for you to present your work, including work-in-progress, posters, discussions and workshops. You can view more here.

Please feel free to forward this to anyone you think might be a good candidate to contribute to BIOME 2024 and should you have any questions, don’t hesitate to contact me.

Sincerely,

Rihanna Kozinski
BioQUEST / BIOME Workshop Coordinator

P.S. Share the word about BIOME 2024 with your network! Feel free to forward this email. If you’re coming across this newsletter and have not done so, you can subscribe here to keep in touch!

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**Partner Corner: News & Opportunities**

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Congratulations!

Long-time BioQUEST friend and supporter Dr. Sheela Vemu, Associate Professor of Biology at Waubonsee Community College, was selected as one of 36 faculty for the 2024 Dale P. Parnell Faculty Distinction Recognition recognized by the American Association of Community Colleges (AACC). This award recognizes individuals who go above and beyond what is required to ensure students succeed academically. Join us in congratulating Dr. Vemu and read more here.

Community Spotlight:

Visit QUBES Hub
Upcoming Events

- May 23: NSF’s Data Science Corps Grant Virtual Q&A
- May 29-30: ISTP (Inclusive STEM Teaching Project) Facilitator Conference
- May 29-31: SABER East Conference
- May 31: BIOME Workshop Proposal Deadline
- June 7: BIOME Work-In-Progress and Poster Submission Due
- July 15-19: BIOME 2024
- July 22: Hackathon for Developing CURES in Antibody Engineering
- July 27: Biennial Conference on Chemical Education
- August 1-4: Save the date: 24th Science Education for New Civic Engagements and Responsibilities (SENCER) Summer Institute
- August 1-6: Green Chemistry and Engineering Conference
- Ongoing every Wednesday and Thursday: BioQUEST Weekly Office Hours

If you would like to share an event with us, reach out to Tessa Gatz.
BioQUEST News

QUBES Corner

Twenty-one (21) educational resources were published to the QUBES Library in March with 2,925 resources in total. Browse the new resources here.

- Featured Resources

  - **Understanding the Importance of Microtubules in Normal Cell Division: Chemotherapy Connection** (CourseSource) In introductory courses, students learn about microtubules as important structures but may not engage in a hands-on experience to localize microtubules themselves or to learn about their connection to cancer treatment. In this lesson, students review microtubule structure and function and then design a concept map based on what they have learned. Students also conduct an immunofluorescence procedure using budding yeast cells to observe microtubule localization at different stages of cell division.

  - **Cold blood and wet skin in hot and dry secondary forests. How do amphibian traits determine persistence in secondary forests?**

    Students will synthesize information from biological and physiological traits of amphibians and characteristics of secondary forests in the tropics to form hypotheses about persistence of amphibians in secondary forests and in response to land-use change.

  - **A Modified Template for Biographies of Diverse STEM and STEM Education Professionals**

    This resource shares a modified template that was created to provide meaningful inclusion in science. The template attends to the importance of the cognitive and the emotional and important considerations that our children, particularly children of color and particularly our Black children need to know and understand to help them thrive.

BIOME 2024

Reminder

BIOME 2024 is a unique opportunity to:

- connect with a community of educators;
- develop and implement practical, innovative and impactful teaching resources and strategies;
- leave the institute with a community, ideas, materials and, truly, a whole lot of inspiration!

Learn more and apply here.
ImmunoReach Symposia

ImmunoReach is an interdisciplinary Community of Practice that meets on Fridays at 3 pm CT to discuss immunology education and its coverage in diverse classroom settings.

Learn about the last topic happening this Friday and Zoom information [here](#).

BioGraphI Project Accepting Applications for Faculty Mentoring Network

The BioGraphI (Biologists and Graph Interpretation) (LINK [https://qubeshub.org/community/groups/biographi](https://qubeshub.org/community/groups/biographi)) project is now accepting applications from interested faculty to participate in our Summer 2024 Faculty Mentoring Network (FMN). During this professional development opportunity, participants will learn how to prepare and implement their own BioGraphI modules into their courses. BioGraphI modules are designed to address data literacy skills while fostering diversity in undergraduate biology classrooms. These modules are lessons about graph and data interpretation that feature the scientific contributions of counter stereotypical biologists who are members of underrepresented groups.

Applications for the Summer FMN are due on May 24, 2024.

SIMIODE Minicourse at Mathematical Association of America Meeting

SIMIODE will offer a Minicourse, Differential Equations: A Toolbox for Modeling the World in Your Classroom, at the MathFest meeting of the Mathematical Association of America. This is happening in Indianapolis on August 7-10, 2024. This four hour (two sessions of two hours each) Minicourse will feature engaging opportunities to participate in the role of students to experience the value of modeling to motivate and teach differential equations as well as overviews of the modeling process used in teaching differential equations and discussions on practical issues in support of faculty. For complete meeting information see this [webpage](#).

Postdoctoral Research Position Available at the University of Nebraska-Lincoln

Applications are invited for a full time postdoctoral researcher in the School of Biological Sciences (SBS) at the University of Nebraska-Lincoln (UNL). This postdoctoral researcher will advance undergraduate biology education by examining how Vision and Change (V&C) principles are being enacted in biology courses across a variety of undergraduate institutions. This project is part of a
Getting Started in Biology Education Research Webinar Series

Join an online learning community to learn the fundamental concepts of biology education research when you enroll in the "Getting Started in Biology Education Research" webinar series, brought to you by American Society for Microbiology in partnership with the Society for the Advancement of Biology Education Research (SABER). After this series, you will be better prepared to create a culture of learning for growth & change in the classroom. Apply for enrollment by May 21.

Travel Awards to 2024 Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS)

Proposals and Travel Award applications to the American Society for Microbiology (ASM) Conference for Undergraduate Educators Nov. 15 – 17, 2024 in Pittsburgh are now being accepted. Apply for the ASMCUE Textbook Travel Award or the ASMCUE Travel Award, tailored for first-time, in-person ASMCUE attendees actively engaged in undergraduate teaching at selected accredited U.S. institutions. ASMCUE is your place to elevate pedagogical expertise and foster connections. Proposals are due June 26 and Travel Award applications are due August 12. Learn more and apply.

National Institute on Scientific Teaching to host 2024 Addressing Challenges in Teaching

This summer, the National Institute on Scientific Teaching will host Addressing Challenges in Teaching (ACT), the fourth annual online small group learning event formerly known as Solve My Problem (SMP). We invite you to join us as we form new communities to address common challenges in undergraduate education such as academic support for students, building meaningful group work, responding to the rise of AI, and exploring novel grading strategies. Educators at all stages of their academic career are welcome to join us as we meet new colleagues while we explore, reflect upon, learn and deepen our teaching practices. Registration Deadline: June 14, 2024. Learn more.

Resources for Inclusive Evolution Education
Do you want to create interdisciplinary teaching resources for inclusive undergraduate evolution education? The Resources for Inclusive Evolution Education (#RIE2) working group is looking for participants to do just that! Apply now by filling out this google form. Deadline is 5 pm PT on May 28, 2024.

Teaching through water: A Science Education for New Civic Engagements and Responsibilities (SENCER) faculty workshop

Happening on Friday, May 31, 2024, NCSCE is organizing a free one-day workshop to support teaching through the very wicked civic problems related to water. These challenges face all communities, local and global, affluent and under-resourced, and demand the profound multi-disciplinary systems approaches that SENCER strategies foster. We will be featuring current work from throughout the SENCER community and beyond. If you would like to share your water-related courses, please use this form.

STEM Leadership Series: Excellence, Catalysts for Change, and Inclusive Impact

Through the exploration of innovative ideas, curriculum materials, policy revisions and network leveraging, leaders can drive meaningful changes to advance initiatives within their institutions. This series will delve into the strategies employed by influential leaders in the field who have successfully spearheaded the transformation of STEM. Learn more here. Next webinar is May 20, 2024 on Course and Curricular Reform across STEM Disciplines with Equity and Justice as the Guiding Principle: A Case Study at Bates College.

Attend the 2024 OUR & MCC Research & Pedagogy Virtual Workshop

Optimizing Undergraduate Research Opportunities (OUR) and Malate Dehydrogenase CURES Community (MCC) is hosting a workshop. Sessions will include best practices on incorporating essential attributes of research into CUREs (Course-based Undergraduate Research Experiences), YUREs (Year Round Undergraduate Research Experiences) and SUREs (Summer Undergraduate Research Experiences). Learn more here.

Master Class in Teaching Math Modeling for Life Sciences

Hosted by the Department of Mathematics at Harvard University, this workshop is designed for faculty members interested in launching a new life science modeling course that would be an alternative to calculus within the next couple of years. You will learn to use modern computational tools to teach calc in a rigorous, modeling-centric way (e.g., Jupyter notebooks), develop
your syllabus for a new modeling course to fit your own institutional context, dig into student thinking by looking at student work on assessments, and observe students building the concepts by watching colleagues teach Mathematical Modeling course at Harvard's Summer School. Happening June 23 – 28, click [here](#) to learn more.