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Community Spotlight:



Did you catch our latest Community Spotlight featuring partner Brian Winkel with SIMIODE? [Click here to read.](#)

Make sure to [sign up](#) to receive these emails (if you are not already).

Hello! I invite you to join fellow STEM educators and embark on a transformative journey into the future of STEM education at [BIOME 2024](#). It's time to adapt, evolve and innovate the education landscape for current and future generations.

BIOME 2024 is delighted to host Drs. Tessa Andrews and Robin Greenler, with Evangeline Su as the keynote presenters, who will discuss their work in faculty support during this time of change and opportunity for STEM education. Participants can also expect numerous opportunities to attend workshops and poster sessions to listen and learn to what their peers are doing in their work. This is a [unique opportunity](#) for faculty to expand their network and be part of a community of like-minded individuals advocating for current and future STEM educators.

BIOME 2024 is set for July 15-19, 2024. Applications to present a workshop, poster or work-in-progress [are now open](#). **Our early-bird registration ends tomorrow.** Visit our [website](#) today to learn more.



Please feel free to [reach out to me](#) with any questions and I am looking forward to seeing you there!

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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Upcoming Events

April 19 [BIOME](#) Early Bird Deadline

May 20-22 [Sixth Annual Global Bioinformatics Education Summit \(GBES\)](#)

May 29-31 [SABER East Conference](#)

July 15-19 [BIOME 2024](#)

July 22 [Hackathon for Developing CURES in Antibody Engineering](#)

August 1-4 *Save the date*: 24th Science Education for New Civic Engagements and Responsibilities (SENCER) Summer Institute

Ongoing every Wednesday and Thursday:
[BioQUEST Weekly Office Hours](#)

If you would like to share an event with us, reach out to [Tessa Gatz](#).

QUBES Corner

Seven open educational resources were published to the QUBES Library in March with **2,908** resources in total. [Browse the new resources here.](#)

- **Featured Resources**

- [A Customizable Inquiry-Based Statistics Teaching Application for Introductory Biology Students](#) (CourseSource)

This resource introduces students to the strengths of the R interface while eliminating the need for complex coding in the R programming language. It prioritizes practical implementation of statistical analyses over learning statistical theory. The BioStats app interface yields a simplified introduction to applied statistics that is adaptable to many biology laboratory courses.

- [Marsh Madness: Using Video Games and a Case Study to Explore Food Webs and Ecosystem Services in Carpinteria Salt Marsh Reserve](#) (CourseSource)

A case study based on Carpinteria Salt Marsh Reserve that incorporates both active- and game-based learning to teach students about socio-ecological systems and food web ecology and to use systems thinking. It was designed for two 75-minute class periods and uses a freely available web-based game developed by the authors.

- [RIOS Working Group Publication](#)

With funding from the RIOS Institute, Melanie Lenahan (Biology) and Karen Gaffney (English) from Raritan Valley Community College engaged students in developing teaching materials to debunk the myth that race is biological. We encourage faculty to use these materials in their courses.

BIOME 2024 Early-Bird Deadline

The **BIOME 2024** early-bird deadline is **THIS WEEK (April 19)**!

Keynotes, discussions and workshops will focus on creating inclusive learning environments that empower and engage all students, and how inclusive teaching practices can extend into our professional networks and groups.



BIOME 2024 is a unique opportunity to connect deeply with a community of educators and to develop and implement practical, innovative and impactful teaching resources and strategies. You will leave the institute with a community, ideas, materials and, truly, a whole lot of inspiration!

Learn more and apply [here](#).

Partner News and Opportunities

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](#).

Ecological Society of America (ESA) Four-Dimensional Ecology Education (4DEE) Extravaganza



Happening later this month, the ESA 4DEE Extravaganza is back after 4 years! To meet the growing interest in the 4DEE framework, ESA is excited to showcase the phenomenal work produced by 4DEE Education Scholars who participated in the

Transforming Ecology Education to 4D (TEE) Faculty Mentoring Networks (FMN) and other scholars in the 4DEE community. Whether you are an educator looking for resources for your classroom and courses or you are a researcher seeking ideas for collaboration, please join us in the 4DEE Extravaganza. Learn more [here](#).

Apply now for the HHMI BioInteractive Ambassador Academy!

Applications are open for the second HHMI BioInteractive

Ambassador Academy, a multi-year professional development experience designed to support evidence-based teaching practices! BioInteractive is looking for educators with diverse backgrounds and teaching contexts who are



committed to centering equity in their classrooms. More about the Academy, including eligibility criteria, benefits of participation, and a link to the application, can be found on the [Academy webpage](#).

ImmunoReach Symposia

ImmunoReach is an interdisciplinary Community of Practice that meets on Fridays at 3 p.m. CT to discuss immunology education and its coverage in diverse classroom settings. Learn about upcoming topics and Zoom information [here](#).

Improvement of General Education Life Science (IGELS) Courses Survey

Faculty like you, who teach undergraduate life science courses to non-science majors, play a vital role in our society. We greatly value your perspectives, and we need your help! The IGELS project, through an NSF award (2126154), is investigating what impact the biology education report, Vision and Change (AAAS, 2009), has had on select life science/biology instructors. We hope you can help. Take a brief survey that will help shape adequate and relevant professional development opportunities for General Education Life Science (GELS) course instructors. Link to the survey is [here](#).

Summer of Nanopore Sequencing 2024 hosted by the DNA Learning Center (DNALC) and Oxford Nanopore

**REGISTER
TODAY**



The DNA Learning Center (DNALC) and Oxford Nanopore are working together to adapt nanopore sequencing for use in education.

The DNALC's popular DNA Subway is currently being

redeveloped for full mobile use, including a new line for nanopore sequence analysis. Workshop participants will be the first to test this streamlined approach for combining MinION sequence data with the DNA Subway pipeline—providing DNA sequencing and analysis any time, any place, by anyone. The workshop is taking place around the US and workshop participants will receive a \$300 stipend. Learn more [here](#).

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

Become a Malate Dehydrogenase CURES Community (MCC) Fellow

Malate Dehydrogenase (MDH) Course-based Undergraduate Research Experiences (CURES) Community Applications for the 2024 MCC Fellows Cohort are open and the deadline is April 25, 2024. Click [here for more info](#) and apply.

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](#).

Innovation in Two-Year College STEM Education (ITYC) program office hours

The IUSE: Innovation in Two-Year College STEM Education (ITYC) program will hold more office hours during the months of April - July on the following dates and times:

- April 18, 2024 2 - 3 p.m. EST
- May 23, 2024 2 - 3 p.m. EST
- June 20, 2024 2 - 3 p.m. EST
- July 18, 2024 2 - 3 p.m. EST

Register in advance [here](#).

Master Class in Teaching Math Modeling for Life Sciences



DEPARTMENT OF MATHEMATICS
HARVARD UNIVERSITY

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.



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