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## Community Spotlight:



### Our 2022-23 FMN Mentors

Over the 2022-2023 school year, BioQUEST facilitated 14 Faculty Mentoring Networks, bringing together more than 100 educators to connect over a broad common goal: to improve the student experience in today's STEM classrooms. Over 30 mentors led the way in these groups, creating community at a crucial time and providing expertise, advice, and guidance. In doing so, they have made significant contributions to STEM education, the professional growth of their peers, and to creating a vibrant, scholarly, innovative community around STEM education reform. Read the [June Community Spotlight](#) to find a list of mentors, links to the 2022-2023 FMNs and their resources, and a sneak peek for upcoming Fall FMNs!



*Greetings BioQUESTer's*

June is PRIDE month which means we are celebrating our colleagues, friends, and family that are part of the wonderfully diverse LGBTQ+ community. For allies, this is also an excellent time to reflect on your involvement with, and support of, the LGBTQ+ community and how you might become a better ally.

Here are some LGBTQ+ resources to hopefully stimulate conversation and action!

- [Gender and LGBTQ+ in Natural Sciences](#): This is a collection of papers that is part of the Blueprint for Accelerating Change in Social Justice, Equity, Diversity, and Inclusion in STEM Curricula. Interested in adding to this reading list or joining this new project? [Contact us!](#)
- [How We Help: Human Elements of Restoration Ecology](#): This module introduces the basics of restoration ecology, but also includes an interview with Dr. Anna Sher, an ecologist who belongs to the LGBTQ+ community. This lesson gives an example of how you can weave identity and representation into STEM content.
- [Small is Beautiful: OER for Cultural Change in a STEM Institution](#): This report serves as a resource for faculty, staff, and students interested in co-creating Open Education Resources (OERs). In particular, we embrace OERs as an invitation to co-create, revise, and collaborate in designing course materials to address systemic issues of racism by aligning with social justice principles of redistribution, recognition, and representation.

[BLUE](#) is developing a series of modules for introductory major/non-major biology courses on the process of science centering different biologists from the LGBTQ+ community. These will be available through their [QUBESHub Portal](#) soon, so stay tuned!

There are also many STEM-focused LGBTQ+ organizations. These provide support to LGBTQ+ students and professionals in STEM by providing a wealth of information, support, and workshops, among other offerings. Please visit these sites to learn more ways to help and consider donating.

- [Out to Innovate](#)

- [oSTEM](#) (Out in Science, Technology, Engineering, and Mathematics)

- [Pride in STEM](#)

Do you have resources you would like to share? Visit the [Knowledge Base](#) to learn more about publishing on QUBESHub, or [contact us](#) with any questions!

*P.S. If you're coming across this newsletter on the QUBES website or on social media, you can [subscribe here](#) to keep in touch!*

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*In this newsletter:*

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## QUBES Corner

**65 open educational resources** were published to the QUBES Library in March with **2,744** resources in total. [Browse the new resources here.](#)

### • Featured Resources

- [Learning How to Make "Good Enough" Estimations \(CourseSource\)](#)

*The ability to estimate physical quantities is a useful skill that can help develop critical thinking and scientific literacy. This lesson provides an accessible way to teach students how to estimate physical quantities by focusing on three key aspects: making assumptions based on previous experiences, explicitly converting units, and communicating the solution clearly.*

- [Biodiversity Counts! Making Sense of Diversity Metrics and Graphs \(BioGraph!\)](#)

*In this lesson students 1) become familiar with various graphs that are used to study diversity patterns within and across sites, 2) learn about some of the questions that can be addressed by metabarcoding studies, and 3) reflect on an interview with evolutionary ecologist Maria Rebolledo Gomez, who collected the data used in the lesson.*

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July 10-14 [BIOME Institute Virtual Synchronous Week](#)

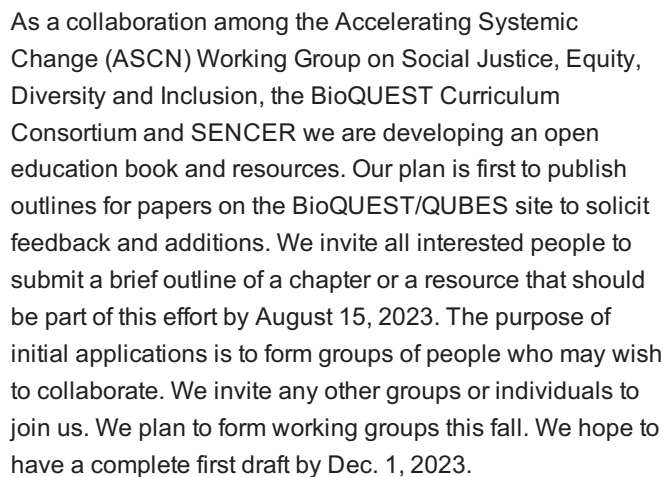
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July 24-27 [BIOME Institute Optional In-person Session at the University of New Hampshire](#)

## Call for Fall 2023 Faculty Mentoring Networks



## Book Chapter Teaser



We hope you will also consider joining our ASCN working group on [Social Justice and DEI in STEMM](#).

To see some of what we presented at the ASCN Transforming Institutions Conference, [check out our materials](#).

## Featured Publications

We are so proud of the amazing scholarly work that is coming out of our community. Congratulations to the authors and thank you for your work.

*Computing in Science & Engineering*, June 2023

["Hubzero: Community Growth for Four Science Gateways Supporting Open Science"](#)

Sandra Gesing, Claire Stirm, Gerhard Klimeck et al.,

*Hubzero is a widely used science gateway framework designed to support online communities with efficient sharing and publication processes. The paper discusses the growth of communities for the four science gateways nanoHUB, MyGeoHub, QUBEShub, and HubICL using the Hubzero Platform to foster open science and tackling education with a diverse set of approaches and target communities.*

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*ASCN DEI in STEMM Blog*, June 2023

["From Civic Engagement to Civic Courage—Science Education's Next Chapter"](#)

Eliza Jane Reilly

*This article talks about the connections among science, education and democracy and how SENCER is helping educators teach science in relevant civic frameworks.*

*If you have published a paper related to your work with BioQUEST and/or the QUBES platform, please let us know ([send the link to Molly](#))!*

## Partner News and Opportunities OCELOTS Fall Incubator

Are you interested in creating an online, open-source module in tropical biology that is based on your own research? Apply now to join us for the Fall 2023 – Spring 2024

Incubator hosted by OCELOTS (Network for

Facilitating Online Content for Experiential Learning of Tropical Systems) & BioQUEST/QUBES.



Participants in this Incubator will create an online module in tropical biology for use in undergraduate life science courses, with the module hosted on the [Gala platform](#). This will likely involve taking your case study that is based on your own research and working with a team of 1-3 mentors who will enable you to use best teaching and learning practices, the Ecological Society of America's 4DEE framework, media, and/or interactive data tools. As part of the process, teams will participate in bi-weekly virtual sessions to collaborate with and support others in the network. Applications are due August 1, 2023. Learn more and apply [here](#).

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### EcoEdDL New Publications from LDC FMN

[EcoEd Digital Library](#)

(EcoEdDL), Ecological

[EcoEd Digital Library](#)

Society of America's online education resource portal, recently published several modules from the Life Discovery FMN that was hosted on QUBES Hub in Spring 2022. The LDC FMN was built off the [Life Discovery – Doing Science Education Conference 2021's theme, Pushing Past Barriers: Ecological Science for All](#).

Find the published modules [here](#).

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### Student Success & Equity Podcast

Continuous Learning Institute released a new Student Success podcast episode entitled Student Success and Equity with

Dr. Tia McNair, Vice

President, Diversity Equity, and Student Success American Association of Colleges and Universities. Learn why equity work is everyone's work at every institution. Listen [here](#).



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