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ROW Recap

Each week we feature an outstanding educational resource. All resources featured in the Resource of the Week (ROW) have been plucked from the large and growing collection of open education resources (OER) that are freely available on QUBES. Most resources have open licenses, allowing you to easily find, use, and adapt the materials.

[Subscribe to the ROW.](#) You do not need a QUBES account to subscribe!

[Browse all past ROWs](#)

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Quantifying and Visualizing Campus Tree Phenology
By Nathan Emery, Caleb Trujillo, Andrew Jarosz, and Tammy Long



This lesson, published on CourseSource, enables student teams to collect, quantify, and analyze observable seasonal changes in nature.

The screenshot shows the 'Accessibility' system preferences window. On the left, the 'General' tab is selected. Under the 'Accessibility shortcut' section, a list of shortcuts is displayed: Zoom, VoiceOver, Sticky Keys, Mouse Keys, Inverse Mouse, and Invert Display Color. At the bottom, there is a checkbox labeled 'Show Accessibility status in menu bar' which is currently unchecked.

QUBES partners with organizations and groups who are doing exciting things in undergraduate education. Every so often we select one of these partners to feature in our newsletter to raise awareness of their work, celebrate recent activities, and announce upcoming opportunities.

There are a couple of ways QUBES users can get involved with GEA:

GEA invites the community of researchers and educators working in genomics and related fields to [join them](#) in shaping this alliance.

One of GEA's objectives is to better understand the needs of undergraduate educators who teach or may want to teach genomics. They will support these needs by organizing a common resource of software tools, documentation, assessments, and computational support. These resources would be focused on delivering genomics education in the context of course-based undergraduate research experiences (CUREs).

Attend the GEA Progress Meeting

GEA will host a meeting on June 5–8, 2019 at Washington University in St. Louis to help identify and curate resources to ensure the sustainability of undergraduate education in bioinformatics and genomics. If you are interested in attending this meeting or future ones, please contact [Douglas Chalker](#) for more information.

A bald eagle is shown in flight, wings spread wide, against a clear blue sky. The eagle's head is white, and its body is dark brown. The wings are dark brown with white feathers on the underside. The eagle is flying towards the right.

Students address the research question: How does a bald eagle population change over time at a winter migratory stopover and which factors influence its abundance? This module was originally published in the Ecological Society of America's teaching journal, *Teaching Issues and Experiments in Ecology*.

Call for Fall 2019 Faculty Mentoring Networks

Investigating human impacts on stream ecology: Intro to R
By Kristen Kaczynski



Data Explorers

This adaptation of a *Teaching Issues and Experiments in Ecology* module has students using R instead of Excel to analyze a stream ecology dataset derived from the EPA's Wadeable Streams Assessment. Students perform basic summary statistics and data visualization.



Faculty Mentoring Networks (FMNs) are long-term, low-intensity professional development opportunities hosted through QUBES. An FMN brings a small group of like-minded educators together to discuss pedagogy; share resources; adapt, implement, and share teaching materials; and create a community around a given topic. FMNs can broaden the impacts of your project, click [here](#) to see how!

We are currently recruiting for Fall 2019 FMNs with commitments needed by June 1. If you are interested in running one, please contact [Deb Rook](#) soon!

QUBES Near You

In QUBES Near You, we let you know which upcoming conferences or meetings the members of the QUBES team will be attending in case you'd like to connect with them. Members of Team QUBES are always looking to meet others who have a passion for quantitative biology education. See where they'll be this summer and don't forget to ask them for a QUBES sticker!



From left to right: Sam Donovan (Director of OER), Carrie Diaz Eaton (Director of QUBES Consortium), Kristin Jenkins (Director of BioQUEST), Elizabeth Hamman (QUBES Postdoc).

If you will be attending...	Feel free to look for...
Genomics Education Alliance Progress Meeting June 6-8 in St. Louis, MO	Sam Donovan
HITS Summer Workshop June 10-12 in Elon, NC	Sam Donovan
Evolution 2019 June 19-23 in Providence, RI	Kristin Jenkins
Gordon Research Conference in Undergraduate Biology Education Research June 23-28 in Bates, ME	Carrie Diaz Eaton Kristin Jenkins
2019 QUBES/BioQUEST Summer Workshop July 14-19 in Williamsburg, VA	The entire QUBES team!
Society for Mathematical Biology 2019 Annual Meeting July 21-24 in Montreal, Quebec, Canada	Carrie Diaz Eaton
Ecological Society of America/United States Society for Ecological Economics 2019 August 11-16 in Louisville, KY	Elizabeth Hamman

Attend the ASCN webinar on “Spreading Evidence-Based Instructional Practices: Leveraging Peer Observation for Institutional Change”



Thursday, May 30, 2019

9:00AM PT - 10:00AM MT - 11:00AM CT - 12:00PM ET

This webinar by the [Accelerating Systemic Change Network \(ASCN\)](#) is designed for STEM faculty, faculty developers (e.g., teaching and learning center staff), and disciplinary and institutional change leaders (e.g., department chairs, administrators at all levels, disciplinary association members and leaders). It may be of particular interest to those who are planning or currently implementing change efforts. [Learn more](#) and [register](#) by May 28.

Presenters: Stephanie Salomone, Heather Dillon, Eric Ancil, Tara Presholdt, and Valerie Peterson (University of Portland)

Submit a proposal for the 11th Annual Biology Education Research Symposium at 2019 NABT



The 11th annual Biology Education Research Symposium (sponsored by the National Association of Biology Teachers (NABT) Four Year University/College Section's Biology Education Research Committee) is now accepting proposals for presentations. Previous presentations have included case study research on teaching evolution, action research in a high school setting, and modeling in elementary students. This is a refereed session to be presented at the [2019 NABT Professional Development Conference](#) on November 15, 2019 in Chicago. The format of the symposium will be a traditional presentation of papers by individuals or co-authors lasting 15 minutes each.

To read the full call for proposals and learn how to submit your own, please visit: <https://nabt.org/Research-Symposium>. The proposal submission deadline is June 16, 2019.

Apply to be a PALM fellow by July 30 to receive mentoring in teaching



The [Promoting Active Learning and Mentoring \(PALM\) network](#) is now accepting applications for PALM fellows. As a PALM fellow, you will develop your abilities to teach lecture courses using active learning by working with an experienced active learning instructor. Receive up to \$2000 per Fellow / \$500 mentor stipend / \$1000 meeting travel each for Fellow and mentor.

For more information, including eligibility requirements, application details, and to learn about how to be paired with a mentor if you don't have one in mind, visit palmnetwork.org. The next application deadline for 2019 is July 30, so apply soon!

Attend the 20th annual conference on case study teaching in science



The [National Center for Case Study Teaching in Science](#) is sponsoring the 20th annual conference on case study teaching in science on September 27-28, 2019 in Buffalo, NY at Buffalo Marriott Niagara. The conference offers sessions for both the beginner and advanced case study teacher and is formatted for college and high school teachers. Workshop sessions this year will cover teaching cases using backward design, multimedia learning principals, developing cases using biointeractive videos, high school methods of engaging students, and more! Check the website for a full listing of [workshop sessions](#) and [session speakers](#).

[Register](#) and [submit your poster session proposals](#) by September 10, 2019. Included in this year's registration fee is a one-year subscription to the National Center for Case Study Teaching case study collection teaching notes and answer keys.

Do you have a product or result from a QUBES sponsored activity? Help us measure our success by [sharing your product or result with QUBES](#). Learn [how to cite QUBES](#).



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