



Hello Science Education Leaders,

I hope you found time to relax over the holiday break. Speaking of hope, I hoped 2021 would show a calming trend, and I'm still optimistic on that. If you're looking for some resources in relation to the U.S. Capitol riots, here are a couple options: [PBS civil discourse](#), [NPR article](#), and [EdWeek resources](#). I do think we need to address [politicized issues](#) in our science classes, practice/teach effective discourse, and discuss what a STEM/science perspective can bring to current events.

Please, let me know if I can help with some resources or a facilitated discussion, like a brief after-school dig into assessment strategies or virtual teaching ideas.

Below are a few science education resources and opportunities I've heard about. If you have announcements to share about science or STEM-related professional learning and resources, please send them my way for the next edition. A record of these emails can be found on my website: dpi.wi.gov/science/social-media.

Cheers,
Kevin

Learning Opportunities

- [Monthly Book Study and Equity work](#) - all welcome - Jan 18 and Feb 15
- [Presidential Awards](#) - apply or nominate a grade 7-12 teacher now
- [PBS Wisconsin Foldscopes Webinar](#) - Today (1/14) at 4pm

Resources

- [Gloria Ladson-Billings](#) - Science as a key to Equity!
- [EAA Aviation Museum](#) - resources and student programs

Student Opportunities

- [Wonders of Physics video contest](#) - due June 30
- [Fly Like a Girl Movie Screening and Pilots Discussion](#) - Jan 23
- [Research opportunities for HS students](#) - UW Madison Science Alliance

Details

Learning Opportunities

- Monthly Book Study and Equity work - Jan 18 and Feb 15

<https://forms.gle/ChkVDbzgGBm82yge6> - registration link. We'll meet virtually at 4pm. All are welcome even if you haven't attended previously (new topics each month on the theme of equity). We'll be digging into the first couple of chapters of Doug Larkin's book, *Teaching Science in Diverse Classrooms*. [You can listen to them via podcast here](#). We'll also discuss current events related to systemic racism and equitable discourse in a science classroom.

- Presidential Awards - apply or nominate a grade 7-12 teacher now

<https://www.paemst.org/> - The Presidential Awards for Excellence in Mathematics and Science Teaching is the highest level teacher award program coordinated by the federal government and the White House (Teacher of the Year is coordinated by CCSSO). Applicants receive mentoring as they record 30 min of a class and write up a narrative on their instructional practices. Two state awardees receive \$10k and a trip to DC (once things are back to normal).

- PBS Wisconsin Foldscopes Webinar - Today (1/14) at 4pm

[Registration](#) - Join PBS Wisconsin Education as they host the [Foldscopes](#) team (these are very inexpensive, paper microscopes that can be used with devices with cameras). Learn pedagogical methods for implementing Foldscopes into your virtual, hybrid, or in person Science classrooms and walk away with lessons and resources you can use with your students.

Resources

- Gloria Ladson-Billings - Science as a key to Equity!

[Video of Panel from the National Academy of Education](#) - UW-Madison's Dr. Gloria Ladson-Billings speaks a couple times in this recording on education after COVID-19. From ~10:20 to 12:40 she lays out that science should be the core of curriculum and instruction to ensure equity for our students and prepare for the future.

- EAA Aviation Museum - resources and student programs

eaa.org/eActivities - The EAA Aviation Museum is excited to announce the start of online eActivities educational programming. Since visits to the museum are limited, we are bringing the best of our programming to you — to use in your classroom or at home. Explore topics such as the four forces of flight or Bernoulli's Principle with a video and standards-based activities geared toward K-12. Be sure to look at the Space Day in Your Classroom section, where, for a limited time, we will provide you with supplies and even T-shirts for your class! Contact Cassie Cobb at ccobb@eaa.org with questions.

Student Opportunities

- Wonders of Physics video contest - due June 30
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<https://wonders.physics.wisc.edu/contest/>. - The UW-Madison Physics Outreach team invites your students (or you) to submit a 2-minute video demonstrating a physics concept. Awards will be given for the best videos, and winners will be posted on their website and edited into a longer video to be shown on public television. They encourage submissions from students, but for legal reasons, anyone under the age of 18 must work under the supervision of a parent, guardian, or teacher who will submit the video on their behalf. The deadline for submissions is June 30, 2021.

- *Fly Like a Girl* Movie Screening and Pilots Discussion - Jan 23

Students and educators can join the Wisconsin chapters of Women in Aviation International for a free virtual screening (all ages) of the new documentary, *Fly Like a Girl*, featuring accomplished female aviators, as well as a live Q/A and prizes with Wisconsin aviators afterward. Pre-registration is required using this Google form:

<https://forms.gle/TinSsyK1Y5vf3Rvf7>. The registration also includes an opportunity to apply for a \$250 flight training scholarship (for girls ages 8-17). More information is available on the Facebook event page: <https://www.facebook.com/events/3777633092270015>.

- Research opportunities for HS students - UW Madison Science Alliance

https://docs.google.com/document/d/1jEDldDpdKZiH94kHt_Po0kJkQPvFRBfW5xehMa8FAxg/edit?usp=sharing - the UW-Madison Science Alliance group compiled a listing of research opportunities for high school students.

Finally, on a sad note, Troy Dassler, an amazing advocate for elementary science and effective science instruction for EL students passed away in late December. Obituary - <https://www.gundersonfh.com/obituaries/Troy-M-Dassler?obId=19476232>

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"The opposite of love is not hate, it's indifference." - Elie Wiesel