Hello Education Colleagues,

I hope you're doing well during this warm winter. **As always, please, let me know if I can help with some resources or a facilitated workshop at your location, like a dig into standards-based grading, equity in science, or new curriculum materials - whether in-person or virtual (no cost for this help). Send me an email!**

Below are a few science education resources 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

- WSST Conference in Madison - March 9-11
- WI Institute for Next Gen Science - July 16-20 in Land O'Lakes
- Free Recorded Webinars on Sensemaking and Phenomena
- STEM and after-school connections in NE Wisconsin - March 2

Resources

- Indigenous Teaching Methods and Inclusive Science Communication - recording
- Article - Do you assign effective homework? How do you grade it?
- NSTA NGSS Webinar Archive - Looking for introductory learning?

Student Opportunities

- National Youth Science Academy – apply by Feb 28
- State Water Inquiry Project - ongoing through 2024

Details

Learning Opportunities

- WSST Conference in Madison - March 9-11

https://www.wsst.org/2023-conference - I'm looking forward to this incredible science educator conference! There are so many session and networking options. If we haven't met, please come say hi in one of my sessions or at the DPI PAEMST booth in the exhibit hall.

- WI Institute for Next Gen Science - July 16-20 in Land O'Lakes

Just ask the 20+ attendees from 2022, this summer institute was wonderful learning and rejuvenation (video evidence). You will stay overnight at the beautiful Lowenwood Estate (former Conserve School) in a single dorm room (sharing a bathroom with one other person, which could be a colleague of yours!). There is a great blend of learning, social time, and enjoying the amazing outdoors. There is NO cost to attend - meals, accommodations, and mileage are all paid. For more information, reach out to WSST Professional Development Chair, Chad Janowski at chad@einsteinproject.org. Fill out the application to express interest and get on the list (not a commitment) - https://forms.gle/3mg99998j4QE4Bex8.

- Free Recorded Webinars on Sensemaking and Phenomena

https://go.info.amplify.com/fy23_science_freepdcourse_national_registernow_webinar-series_content-only_optin - with a free sign-up, you can get access to these Amplify science webinars w/ Rebecca Abbott on sensemaking and phenomena (not an endorsement of Amplify!). They're geared toward grades K-8.

- STEM and after-school connections in NE Wisconsin - March 2

https://uwmadison.zoom.us/meeting/register/tJIuce6srjMuG9BgorG8cZWmyNvOkYCMreMO - This **online** session on Mar 2 (9:30 - 11) is free and open to any educators and staff interested in out-of-school time STEM. Register by Feb 24th to learn about examples of quality STEM engagement, how to plan STEM programs, and connect to other professionals in NE Wisconsin (Brown, Manitowoc, Kewaunee, Forest, Florence, Oconto and Marinette counties). Further details provided (like the link to join) after registering.

Resources

- Indigenous Teaching Methods and Inclusive Science Communication - recording

In this recorded webinar by Gabriel Saiz (UW-Madison grad!), he digs into utilizing Indigenous teaching methods to improve learning outcomes for both Indigenous and non-Indigenous students in science/STEM education. He highlights examples of Indigenous Knowledge Systems and Western Science interfacing in real world situations. Indigenous teaching methods will be suggested as ways to make the natural sciences approachable for all students. Topics introduced will include ways to make scientific methodologies relevant to individual experiences, opportunities for students to achieve self-actualization through science literacy, and to explore the ethical implication of new technology. You can access videos and resources by registering on Sutra and visiting the link: https://edequitywinter23.sutra.co

- Article - Do you assign effective homework? How do you grade it?

https://www.washingtonpost.com/education/2023/02/06/should-homework-be-graded/ - I thought this article provided some interesting insights on giving and grading homework. It would make a nice starting point for a PLC conversation.

- NSTA NGSS Webinar Archive - Looking for introductory learning?

https://ngss.nsta.org/web-seminar-archives.aspx - This is a long list of introductory learning related to the Wisconsin Standards for Science (Next Generation Science Standards). There is even a section tailored for elementary science.

Student Opportunities

- National Youth Science Academy – apply by Feb 28

https://www.nysacademy.org/programs/nyscamp/2023-nyscamp/ - Past Wisconsin participants have loved attending this national-level science camp ("academy") in West Virginia, happening this year from June 19th to July 12th. All travel and living expenses are paid. Students learn from nationally-renowned scientists and take a side trip to DC to connect to science related policy making. Two Wisconsin students can attend. It is open to graduating seniors or juniors, though seniors receive some priority. We don't get a lot of applications! Application are due by 5pm CT on Feb 28 – application link.

- State Water Inquiry Project - ongoing through 2024

https://dpi.wi.gov/science/water - this ongoing project can engage students in meaningful, local phenomena, and give them an opportunity to make a difference in their communities. Through the GIS platform, you can share data and information on what you're doing with other across the state.

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"Science is not a body of facts, [it] is a method for deciding whether what we choose to believe has a basis in the laws of nature or not." – Marcia McNutt