



Hello Science Education Leaders,

I'm continuing to work with a variety of groups to support the roll-out of the Wisconsin Standards for Science and the new Forward Exam. Please, let me know if there are particular resources you'd like prioritized. If you'd like a few more details on our creation of these news standards, you can check out a blog post I recently wrote for NSTA: <http://nstacommunities.org/blog/2017/12/20/wisconsin-adopts-new-science-standards/>

Another important piece of news is [the proposed changes to PI 34 in relation to teacher licensing](#). There are online and in-person feedback opportunities through January 31st. Note: the in-person sessions are not for Q&A, just expressing feedback. The hearing dates, times, and locations are as follows:

- **January 16, 4 to 6 p.m.** — St. Norbert College, Mulva Library, Room 101, 400 Third Street, De Pere;
- **January 17, 2:30 to 4 p.m.** — DPI Headquarters, GEF 3, Room P41, 125 South Webster Street, Madison;
- **January 19, 4:30 to 6:30 p.m.** — Milwaukee Public Schools, Auditorium, 5225 West Vliet Street, Milwaukee;
- **January 25, 3 to 5 p.m.** — CESA 10, Conference Center, 725 West Park Avenue, Chippewa Falls;
- **January 29, 4 to 6 p.m.** — University of Wisconsin-La Crosse, Centennial Hall, 3212 Centennial Hall, La Crosse.

Additional information is available on the Department of Public Instruction News Room website http://dpi.wi.gov/sites/default/files/news-release/dpinr2017_97.pdf. (Text at <https://dpi.wi.gov/news/releases/2017/five-hearings-scheduled-proposed-educator-licensing-rules>.)

Below are the latest 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

- [Innovative Schools Network](#) - Conference on Educational Innovation - Apr 18-20
 - [Stanford's Designing NGSS Performance Tasks MOOC](#) - starting now
 - [National STEM Scholar Program](#) - PD in KY June 3-9
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- [Notre Dame Trustey STEM Teaching Fellows Institute](#) - July 16-28
- [PAEMST](#) - \$10,000 award for K-6 science, technology, engineering and/or math teachers
- [UW-Madison Climate Science Workshops](#) - applications due Jan 19
- [WWII Museum Summer Institute in New Orleans and Hawaii](#) - applications due Feb 1

Resources

- [Websites listing WSS/NGSS assessment resources](#)
- [NASA's STEM Resources from "Year of Education on Station"](#)

Student Opportunities

- [State Crystal Growing Contest](#) - registration due Feb 20th
- [WSST Essay Contest](#) - deadline Mar 23

Details

Learning Opportunities

- Innovative Schools Network - National Conference on Ed Innovation - April 18-20

<https://www.innovativeschoolsnetwork.com/event/show/5877a21126bb0c060a8b4567> - This annual conference showcases the innovative work of Wisconsin (and beyond) public, private, and charter schools. Pre-conference on leadership on Apr 18th. Located in Wisconsin Dells.

- Stanford Designing NGSS Performance Tasks MOOC - starting Jan 8th

<https://sucourses.novoed.com/performance-assessments-2018> - This free, online course provides the latest resources and learning from the Stanford NGSS Assessment Project (SNAP). It focuses on supporting you in learning how to design performance tasks that align to the NGSS. Stanford's courses tend to be high quality. It began January 8th, but you can still sign up. It's not available for credit, but you can get a certificate of completion if you finish the assignments. You can also audit it.

- National STEM Scholar Program - PD in KY June 3-9

<https://www.wku.edu/gifted/nss/application.php> - This all-expense paid professional development experience for middle school science teachers provides a week of intensive learning about and engaging in STEM at Western Kentucky University. Participants receive a tablet computer to facilitate ongoing collaboration and a credit of up to \$2,500 for technology and supplies to implement a classroom project. They also receive sponsored attendance at the NSTA Conference in St. Louis in April 2019. Finally, year-long mentorship and support is provided by Western Kentucky University faculty. Wisconsin's own Valerie Pumala, Cameron MS, attended last year and loved it - [read her story here](#).

- Notre Dame Trustey STEM Teaching Fellows Institute - July 16-28

<https://stemeducation.nd.edu> - This two-week summer STEM Institute sponsored by the

Trustey family begins a multi-year fellowship program for teachers. All expenses are paid for the summer program. Fellows are also expected to attend a two-day RISE summit in January, with districts covering substitute costs (the only associated cost). The program comes highly recommended from Wisconsin educator Annaleise Gruber.

- PAEMST - \$10,000 award for K-6 science, technology, engineering and/or math teachers

www.paemst.org - This annual program will be recognizing K-6 teachers this year. It is the highest honor for STEM-subject teachers in the country! Teachers complete an application that includes taping a lesson, writing a reflection on that lesson and teaching practices in general, and getting letters of recommendation. We will recognize 2-3 Wisconsin finalists in science (and 2-3 in math). Two of our finalists will be national awardees and receive \$10,000 and an all-expense paid trip for two to Washington, D.C.

- UW-Madison Climate Science Workshops - applications due Jan 19

http://www.scifun.org/images/2018_WORKSHOPS_ANNOUNCEMENT.pdf - There will be a two-part series of climate science workshops for high school teachers at UW-Madison this winter/spring - part one Feb 3rd and Mar 3rd, and part two on Apr 14 and May 19. They are being put on by the Wisconsin Initiative for Science Literacy Teachers will receive a \$600 stipend for attending all four, or \$300 for attending one part.

- WWII Museum Summer Institute in New Orleans and Hawaii - applications due Feb 1

<https://www.nationalww2museum.org/students-teachers/educator-resources/professional-development/summer-teacher-institute> - This all-expense paid Summer Teacher Institute is open to any middle or high school teacher at an accredited public, charter, private, or parochial school who has at least three years of classroom teaching experience as of July 2018 and who will be teaching during the 2018-2019 school year. Participants will explore the US Home Front—the engine of production, innovation, and volunteerism that made Allied victory possible on battlefields across the globe. A competitively selected cohort of 30 teachers will spend a week at the Museum in the summer of 2018 (July 22-28) learning from a team of curators, educators, and WWII scholars. In summer of 2019 they will participate in a trip to Pearl Harbor, Hawaii. Organizers aim to have a participant from every state! While it's directed to social studies teachers, science teachers are welcome to apply and describe how they connect to WWII topics in their instruction.

Resources

- Websites listing WSS/NGSS assessment resources

<https://dpi.wi.gov/science/assessment> and <http://cosss.org/StateAssessment> - here are a couple websites I've developed highlighting assessment resources for use with the WSS and NGSS. The [DPI examples site](#) includes a series of performance tasks and rubrics created by Wisconsin educators, with more to come.

- NASA's STEM Resources from "Year of Education on Station"

<https://www.nasa.gov/audience/foreducators/stem-on-station/year-of-education.html> - With

two former teachers on the ISS, NASA is supporting the "Year of Education on the Station" with new STEM activities and resources for students in grades K-16.

Student Opportunities

- Wisconsin Crystal Growing Contest - register by Feb 20

<http://wicgc.chem.wisc.edu> - This annual crystal growing contest has no entry fee and includes separate competitions for HS and MS students. The key idea is, "Who can grow the largest and highest quality crystal?" While registration is due by Feb 20th, the actual contest runs from Mar 1 to Apr 30.

- WSST Essay Contest - deadline Mar 23

<http://www.wsst.org/science-matters> - This annual essay contest includes categories for PK-2, 3-5, 6-8 and 9-12. This year the prompt is to write about a famous and/or local scientist whom you admire, explaining what they do and why they're admirable. There is a \$100 award for a student in each category, and \$100 goes to their teacher. [Criteria and submission details](#)

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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