



Hello Science Education Leaders,

Below are the latest science education resources and opportunities I've heard about. Please, let me know if you have any questions about the topics in this email or if I can come out and support science work in your district.

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

Announcements

- [Presidential Awards for Excellence in Mathematics and Science Teaching](#)
- [NSTA Area Conference and WSST Session Proposals Being Accepted Now](#)
- [Science Fairs](#) - last announcement, deadline for interest form is Nov 15
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Professional Learning

- [DPI WISELearn Science Projects](#) - help build resources for the field!
- [WSST & DPI 2017 Virtual Book Study](#)
- [Engaging English Language Learners in Science](#) - Dec 14 and Apr 12
- [Field Day Lab - Fellowships for Creating MS Science Games](#)
- [Innovative Schools Network Annual Conference](#) - Apr 19-21
- [Online Module for Creating NGSS Assessments](#)
- [NOAA Climate Steward Community](#) - PD and up to \$2000 grant

Details -

Announcements

- **Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST)**

<https://www.paemst.org/> - Are you an effective grade 7-12 science teacher or know someone who is? Nominate yourself or someone else for the highest teaching honor bestowed in the

country. Embark on a reflective journey! Teachers across STEM fields are eligible, including computer science. Those who at least finish the first couple steps of the application will also receive a free copy of this year's book study selection, [Teaching for Conceptual Understanding in Science](#), in order to help support you in the remainder of the process. We even have a mentor who can help you with the process! Email me with questions.

- **2017 NSTA Area Conference in Milwaukee and WSST - Call for Session Proposals**

<http://www.nsta.org/conferences/sessions/meetingsacceptingabstracts.aspx> - In the 2017-18 school year there will not be a traditional Wisconsin Society of Science Teachers (WSST) annual conference. Instead on Nov 9-11, 2017, WSST is partnering with NSTA to support the NSTA Area Conference in Milwaukee. Please, consider submitting a proposal to present at this conference, due Jan 17! Strands include connecting STEM and NGSS, connecting elementary science and literacy, and supporting equity in science, but you can present on anything science related! **Submissions are also being accepted for this spring's WSST conference, due Dec 16th - <http://bit.ly/2e6UXtL>.

- **Science Fairs** - state site and info for other regions: <http://bssef.org/>

<http://capitalsciencefair.org> - The Madison area Capital Science and Engineering Fair (CSEF) is an annual event held at the University of Wisconsin-Madison on the third Saturday of February each year. CSEF 2017 will be held on Saturday, February 18. The deadline for the online interest form - <http://allen.neep.wisc.edu/sciencefair/interest.php> - is November 15th. The winners at CSEF receive prizes and are funded to travel to the 2017 International Science and Engineering Fair.

- **Looking for Science Olympiad Event Supervisors**

Interested in learning more about Science Olympiad? Or, are you a weathered expert? UW-Oshkosh Outreach is seeking UWO Outreach seeks Event Supervisors for 3 tournaments. No experience is needed? Volunteer through this Google form: <http://allen.neep.wisc.edu/sciencefair/interest.php>. For each tournament they need about 24 event supervisors. Events descriptions can be seen here: https://www.soinc.org/2017_div_b_events. Middle school regional events will be Feb. 11 at UW-Oshkosh and Feb. 25 at Waunakee Middle School. April 7 - 8 will be the combined middle school and high school state tournament at UW-Milwaukee.

- **New Round of FabLab Grants - \$25K! - Due on Dec 15th**

<http://inwisconsin.com/community/assistance/fablabs/> - WEDC has been approved to provide a new round of FabLab grants for schools, with up to \$25K per district or \$50K per consortium. There are a lot of fabulous STEM possibilities with such a grant!

Professional Learning

- **DPI WISELearn Projects - Funding is HERE!**

Would you like to join a small group of science educators creating valuable products for the field? I have funding to provide groups of 5-6 people with sub costs, mileage, and food for 2-3

collaborative meetings through this year (with the final meetings likely being in June). Participants will also be able to receive free registration and some travel costs for WSST, where we'll be presenting some of our initial work. There will be three groups:

1. Reimagining the Science Fair - what should science fairs look like in the 21st century? How can they better connect to the NGSS?
2. Building NGSS-Aligned Performance Tasks and Rubrics - we'll break this down into K-2, 3-5, 6-8, and 9-12 grade bands. This work will also be connected to standards-based grading, with the first meeting being on Dec. 16th in Madison.
3. Creating Elementary Lessons that Connect Literacy and Science - we'll aim to build one solid example at each grade level.

Please, send me an email if you're interested, sharing why you're interested and noting which *one* project you'd like to work on. Note, we'll likely be doing these groups in support of larger-scale state science standards work on the horizon (which I'll also need people for). I'm excited to create these products and share them through the [DPI WISELearn system!](#)

- **WSST & DPI 2017 Virtual Book Study**

goo.gl/5Wcfvh - Fill out this quick form if you'd like to participate in this year's WSST & DPI Virtual Book Study. We'll be digging into a fabulous book, [Teaching for Conceptual Understanding in Science](#), which is applicable across all grades, so anyone is welcome to join! We plan to have virtual meetings in Jan, Feb, and Apr, along with an in-person meeting at the WSST conference in March. You'd be welcome to join in for only some meetings, but the 1 or 2 credits that will be offered have specific requirements. Part of the motivation for the Book Study is to mentor those who will be applying for the [PAEMST](#) award, but applying for that is not necessary to participate.

- **Engaging English Language Learners in Science - Dec 14 and Apr 12**

<https://www.regonline.com/engagingenglishlanguagelearnersinscience3> - This two-part workshop features Troy Dassler of UW-Madison's WIDA group. We'll be digging into the science practices from the NGSS, how language is a key part of them, and how to make them accessible to ELLs. Details about the workshop here: <https://www.wida.us/professionaldev/workshops/Standards/ELDscience.aspx>. The workshops will be at the Country Springs Conference Center in Pewaukee. Cost will be \$75 for both, w/ lunch and snacks included. Limited to 40 participants.

- **Field Day Lab - Fellowships for Creating MS Science Games**

<https://fielddaylab.wisc.edu/fellowships/> - There are several opportunities for paid, spring fellowships to work in educational game design for middle schoolers--no experience required in game design, though answering how you've used educational games is part of the application. Applications are due Dec 12th.

- **Innovative Schools Network Annual Conference - Apr 19-21**

<https://www.innovativeschoolsnetwork.com/> - Planning for spring yet? The Innovative Schools Network brings together a great group of people each year in the Dells to thoughtfully consider how to change how we think about and structure student learning. How are you working to move beyond a traditional four wall set-up with isolated subject teaching?

- **Online Module for Creating NGSS Assessments**

<http://stemteachingtools.org/news/2016/short-course-how-to-develop-3d-formative-assessments-for-the-science-classroom> - This is a series of modules and resources on how to create assessments that align to NGSS (connecting to the three dimensions, 3D). The [Research and Practice Collaboratory](#) and the [Design Based Implementation Research](#) groups have been creating some great resources for NGSS!

- **NOAA Climate Stewards Community for 2017**

<http://oceanservice.noaa.gov/education/climate-stewards/welcome.html> - Apply to be a Climate Steward! Selected educators will receive up to \$2000 to do an action project, travel reimbursements to attend national workshops/conferences, professional development, and further monetary/educational resources.

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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