



Hello Science Education Leaders,

First, I need your help! I am conducting a statewide survey to get a better sense of where districts and educators are at with their WSS/NGSS implementation - find it here: <https://forms.gle/v21G4CTmWj3aNVPz9>. I will use the results to help you with networking and with connecting districts doing similar work or using the same curriculum materials. I will share general data with WSST and CESA, so we can all work together to provide the PD that you need. There will also be fabulous prizes you can win, including four \$50 Flinn gift certificates, WSST conference registration, WSST memberships, Braiding Sweetgrass books, and more! It will take 15 mins - please, fill it out today and share it with other schools in your district.

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

- [State Science Survey](#) - will help frame learning opportunities
- [Summer Professional Learning on Engaging Students in Research](#) (HS)

Resources

- [WSST](#) - conference submissions, educator awards, and grants!
- [Social Justice in the Science Classroom](#) - articles from NSTA
- [PBS Wisconsin Meet the Lab Resources](#)
- [After-School Learning Grants](#) - apply by Jan 28
- [Academic and Career Planning](#) - videos from WI businesses
- [Research](#) - solid curriculum materials may be more important than PD

Student Opportunities

- [Learn to Fly](#) Scholarships and FAA Airport Design Competition in Minecraft
-

Details

Learning Opportunities

- State Science Survey - Please, complete by 11/23.

<https://forms.gle/v21G4CTmWj3aNVPz9> - one more plug for the state science survey. This survey really helps to inform my work, and the work of all the organizations supporting science education around the state. Educators and administrators often ask me things like, "Do you know anyone else using these curriculum materials?" And, this survey is how I'm able to help them out and help everyone to network. Please, share the link with your colleagues at other schools, especially elementary. I'm also using this survey to expand my contacts who receive this newsletter to make sure all schools have at least one person who gets it. Thank you! Did I mention there are prizes?

- Summer Professional Learning on Engaging Students in Research (HS)

Are you a high school science teacher or GT Coordinator who wants to provide science research opportunities for your students? The Wisconsin Science Education Foundation is applying for a program through [ASRT](#) to provide this opportunity for you. Selected educators participate in a free in-person educational outreach program during summer for a week. The ASRT program is customized to help teachers who provide science research opportunities within a traditional classroom setting, or helping those with a small, growing research program/club, or even helping those with more established Science Research Programs/Clubs. Educators will receive 4.5 days of in-person consulting sessions in Milwaukee, as well as free breakfast and lunch. Interested candidates should send an email to Lalitha Murali at lalithamurali94@gmail.com ASAP (by November 15). Summer dates TBD.

- **Resources**
- WSST - conference submissions, educator awards, and grants!

The [WSST 2022 Conference](#) is planned to be back in person this April (7-9) in Wausau. I am looking forward to attending! [Conference session submissions](#) are due Dec 13th. You can also nominate educators by Dec 1st for WSST **awards** ([details of each](#)) to be given at the conference ([nomination form](#)). Finally, WSST offers [thousands of dollars in grants](#) for PD and materials through an easy application process - apply for one by Dec 1st!

- Social Justice in the Science Classroom - articles from NSTA

<https://www.nsta.org/blog/social-justice-science-classroom> - in a time where there is some unfortunate turmoil over emphasizing equitable learning of all students, I thought I'd post this Next Gen Navigator from NSTA. The intro article discusses the importance of realizing that science has had an oppressive history and that students bring important different ways of approaching the world on which to build. There are a few other great articles if you keep scrolling down!

- PBS Wisconsin Meet the Lab Resources

PBS Wisconsin Education recently released two new labs in the [Meet the Lab collection](#). *Meet the Lab* introduces middle school students to scientific research through a human lens—focusing on the real-world problems that research seeks to impact (why science is done), the science practices used by researchers (how science is done), and creating opportunities for students to relate to professionals in the field (who science is done by) to

develop their own identity in the sciences. "[Virus Investigators: Superpowered by Electron Microscopy](#)", explores the work of the John W. and Jeanne M. Rowe Center for Research in Virology at the Morgridge Institute for Research. The second new lab, "[Data Decoders: Superpowered by Computers](#)", features the work of the Solís-Lemus Lab at the Wisconsin Institute for Discovery.

- After-School Learning Grants - apply by Jan 28

DPI has announced the most recent application for Nita M. Lowey 21st Century Community Learning Center (21st CCLC) grant competition for funding beginning in the 2022-23 school year. STEM and science are seen as big selling points! This is a federal grant that funds before-school, after-school, and summer programs across Wisconsin, specifically connecting with Title I programs. Grant purposes include academic enrichment, provision of additional services, and family learning/engagement. Public school districts, private schools, charter schools, and community-based organizations are eligible. Learn more by watching the [intro video](#). Applications are due **January 28, 2022**. More information and application materials are available on the DPI's [21st CCLC Competition website](#). DPI will host web-based workshops to assist in developing grant applications. For additional information, please contact [Teri LeSage](#), [Tanya Morin](#), or [Alison Wineberg](#)

- Academic and Career Planning (ACP) - videos from WI businesses

<https://stem101.org/connect/> - check out this new series of workplace learning videos (some featuring [Harley Davidson](#)) from STEM 101. There are also virtual mentor opportunities from these featured companies. Additionally, if you haven't seen them, there is a nice series of Wisconsin workplace videos from the New Manufacturing Alliance in NE Wisconsin - <https://newmfgalliance.org/educators-students/get-real-math-videos/>. These videos are all a nice science/STEM and ACP connection!

- Research - solid curriculum materials may be more important than PD

[Edweek Article](#) - have you updated your curriculum materials lately? Research suggests that strong, standards-aligned materials are really important, and that PD connected to those materials is especially effective. This recent study suggests that high-quality learning materials can be more impactful on student learning than some PD experiences.

Student Opportunities

- Learn to Fly Scholarships and FAA Airport Design Competition in Minecraft

[AOPA Flight Training Scholarships](#) - for high school students **and** educators. Interested in learning to fly? This year, AOPA will offer **80** \$10,000 scholarships to high school students, as well as additional scholarships for educators and others. Scholarships are open now through Feb. 11, 2022. [FAA Airport Design Challenge](#) - The Federal Aviation Administration (FAA) is hosting another round of an airport design challenge for K-12 students to learn about airports and design an actual airport **in Minecraft**. Participation and support for teams is FREE, but registration is required (by November 15th).

Kevin J. B. Anderson, PhD, NBCT
Wisconsin Department of Public Instruction
Science Education Consultant

dpi.wi.gov/science
kevin.anderson@dpi.wi.gov
(608) 266-3319

“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