



Hello Science Education Leaders,

First, I want to thank those 360+ people who filled out the recent DPI survey to provide feedback on science standards and current work on science education in your world. The State Superintendent's Standards Review Council met yesterday and officially decided to move forward with new science standards for Wisconsin. We will now go through a standards writing and public review process before the next Council meeting in September. As noted during that meeting, the fact that so many school districts are already implementing the Next Generation Science Standards will certainly inform the writing process.

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.

I hope to see you this week at the [WSST conference!](#)

Cheers,
Kevin

Learning Opportunities

- [Robotics and Science Workshop](#) - in Madison area on Apr 24th
- [Introduction to Project-based Learning: Equity and Engagement in Science](#) - June 21
- [Wisconsin Center for Environmental Education Workshops](#) - May 11th and summer
- [Summer Institute for Climate Change Education](#) - in MN on June 26-28
- [Modeling Workshops](#) - in IL this summer

Resources

- [International Wolf Center Programs and Virtual Guest Speakers](#)

Student Opportunities

- [Middle School Science and Engineering Fair](#) - MASTERS - May 6

Details

Learning Opportunities

- Robotics and Science Workshop - in Madison area on Apr 24th

<https://goo.gl/forms/GuTQHVqHPDRCjzOO2> (registration) - This workshop, sponsored by WSST, will focus on connecting learning science and working with robotics. It will use LEGO robotics as the context, with gratitude to LEGO for supporting the event, though the learning will apply across robotics platforms. The morning of the workshop, 8:30 to 11:30, will use LEGO WeDo robotics and be most applicable for grades 2-5. The afternoon of the workshop, 12:15 to 3:15, will use LEGO Mindstorms EV3 robotics and be most applicable for grades 6-9. The workshop is graciously being hosted by the BTC Institute at 5445 E Cheryl Pkwy, Fitchburg. There is no cost for the workshop, but with limited spots, we ask that you only register if you're fully committed to attending. If there's interest, we anticipate also offering this workshop in the Oshkosh area in August.

- Introduction to Project-based Learning: Equity and Engagement in Science and Beyond! - June 21

<https://eventgrid.com/Events/31238/170003-verona-academy> - Facilitator: Sara Krauskopf, Educational Consultant. Grade Levels: K-12 Credit: 1. Project-based learning can take many forms in the classroom, but done right, it situates learning in a meaningful context for students and increases buy-in and engagement. Learn from an experienced educator who used PBL not only in the science classroom, but also collaborated with teachers in other subject areas to create rich learning experiences across disciplines. We will look at examples of PBL, do some local exploring, and start working towards developing a PBL activity that makes sense for your situation. Individuals and teams of teachers are encouraged to register. Bring ideas, concerns, standards (if you're feeling ambitious), and an open mind.

- Wisconsin Center for Environmental Education Workshops - May 11th and Summer

<http://www.uwsp.edu/cnr-ap/KEEP/Pages/Professional-Development/Course-Schedule.aspx> - Energy Literacy Workshop in Tomahawk on May 11. Participate in hands-on activities correlated to NGSS. Incorporate energy concepts into your classroom while developing STEM skills. Receive KEEP's Energy Education Activity Guide.

<http://www.uwsp.edu/cnr-ap/wcee/Pages/Professional-Development.aspx> - Two opportunities to earn credits: First, attend The Energy Fair in Custer, Wis, June 16-18. Course "NRES 410/610" provides educators with a unique opportunity to learn more about renewable energy and sustainable living technologies and applications, and receive hands-on project ideas on sustainability while networking with other educators. Second, engage in the course, "NRES 632 - Doable Renewables: Renewable Energy Education in the Classroom," on June 26-27. This course offers renewable energy hands-on activities, class discussions, and classroom-based applications of energy concepts.

- Summer Institute for Climate Change Education - in MN on June 26-28

<https://www.climategen.org/summer-institute> - Join a network of teachers in St. Paul, MN, dedicated to bringing science, critical thinking, and problem solving about climate change into the classroom. The group will be diving into their latest curriculum, *Next Generation Science*, which was written using the NGSS. Climate Generation is a nationally recognized leader in climate change education, leading their 13th 3-day training on climate change education. 22 clock hours, graduate credit and lodging available.

- Modeling Workshops - in IL this summer

<http://modelinginstruction.org> and workshop

descriptions: <http://www.phystec.org/pd/?set=Modeling> - The American Modeling Teachers Association (AMTA) will be offering five workshops in Illinois this summer - physics, chemistry (wait list), biology and middle school. Modeling is a critical practice in science (as noted in the NGSS). I've heard these workshops are very good.

Resources

- International Wolf Center Programs and Virtual Guest Speakers

<http://www.wolf.org/programs/educator-resources-wolf-link/video-conferencing/> - The International Wolf Center is now offering virtual field trips, where they can live-stream directly into any classroom and do educational wolf programs. They have various programs for all grade levels. With wolves appearing often in the news, they can provide an interesting context for teaching about ecosystems and human impacts. The International Wolf Center is a non-profit organization located in Ely in northern MN. You can also contact Andrew Broz for further information - abroz@wolf.org.

Student Opportunities

- Middle School Science and Engineering Fair - MASTERS - May 6

<https://dpi.wi.gov/science/science-fairs/masters> - Do you hold a middle school science and/or engineering fair? Or, do you have students who are engaging in interesting projects? Give them the learning opportunity to share their great ideas! The new Madison Area Science, Technology, and Engineering Rising Stars (MASTERS) program is free and offers all middle school students the opportunity to authentically share their work at the regional level. Initial registration is quick and easy, and is due by March 31st. I hope to see you there!

Kevin J. B. Anderson, PhD, NBCT
Wisconsin Department of Public Instruction
Science Education Consultant
Content and Learning Team
kevin.anderson@dpi.wi.gov

(608) 266-3319
@wisDPIscience

“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

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