

Opportunities and Resources - Email Newsletter October 2, 2015

Student/Teacher Contests

- 1) HS Student Cancer Research Essay – <http://www.emperorscienceaward.com/> - The Emperor Science Award is a contest from PBS for 10th or 11th grade students. They have to write a 750 word essay detailing what they would study if they could work with a cancer scientist. 100 winners will get to work a cancer scientist in 2016! Deadline is Nov 1st.
- 2) Samsung Solve for Tomorrow - <http://www.samsung.com/us/solvefortomorrow/application.html> - Teachers have to write a short description of a community problem, a STEM project you'll do with your students this year to address that problem, and hurdles to academic achievement faced by your students (≤ 100 words/each). You can win Samsung technology for your classroom.
- 3) Toshiba Exploravision – www.exploravision.org - NSTA supported contest for student teams. Students need to envision a technology 20 years from now. Students can win a \$10,000 savings bond!

Instructional Resources

- 1) NASA resources - <https://www.nasa.gov/audience/foreducators/index.html> - scroll down to see their wide range of resources organized by grade bands. Also, check out the current opportunities section for interesting upcoming webinars and engagement opportunities.
- 2) Videos in Spanish from WI Media Lab about a variety of science topics - <http://www.visuallearningsys.com/subscription-esp> - there's also a webinar coming up from the WI Media Lab webinar after school on Oct 14th, where they'll be describing all of their resources. Registration and info: <https://zoom.us/webinar/register/faa8570e777a926034538d7d44481ef37>
- 3) NIH Cell Day on Nov 5th - <http://nigms.nih.gov/cellday> - students can get live answers from scientists. NIH also has free text resources and posters they can send you (limited quantities) - <http://publications.nigms.nih.gov/order/>
- 4) Grades 4-8 Science and Engineering Lessons from Boeing and the Teaching Channel - <https://www.teachingchannel.org/engineering-curriculum-boeing> - these free, problem-based lesson materials include some video clips and appear to be pretty good!
- 5) "Beak of the Finch" short film on evolution from HHMI BioInteractive - <http://www.hhmi.org/biointeractive/beak-finch-film-quiz> - a new film from HHMI. If you haven't checked out their evolution and other biology resources, I highly recommend them.

Opportunities

- 1) sySTEMnow Conference - <http://www.stemforward.org/systemnow-conference/> - STEM Forward's annual conference will feature a keynote by David Evans, Exec Dir of NSTA, and several STEM and science related breakout sessions.
- 2) Kohl Fellowships and Teachers of the Year - <http://www.kohleducation.org/teachers/> - Congratulations to Roger King, agriscience teacher from Holmen High School, who will be our national "Teachers of the Year" representative. Our state teachers of the year are chosen from the Kohl Fellows – nominate someone or apply yourself today!

3) Midwest Environmental Education Conference, with GIS workshop - <http://meeconference.org/> - Lots of great workshops and sessions at this year's conference at Monona Terrace in Madison. The GIS workshop will be all day Wed, based on free GIS software available from the state - <http://meeconference.org/highlights/workshops/>

4) AAAS looking for HS teachers to pilot evolution assessment items - <https://www.research.net/r/p2061pilot> - AAAS' Project 2061 is recruiting eighth grade and high school science teachers who are able to pilot test multiple choice items with their students **in the fall of 2015**. We are currently developing NGSS-aligned assessment items to measure what students understand about **evolution, including both natural selection and common ancestry**. The assessment will be administered online and should take no longer than 45 minutes to complete.

5) **UW-Madison WCER looking for science standards experts **ASAP** – pay \$40/hour** - Immediately, likely within the next week, WCER is looking for a few teachers who are “science standards experts” to do some work related to ELLs. You can get paid \$40/hour for about 8 hours of help for one day on the project. It will be in person, so you'd have to travel to Madison. Please, let me know if you're interested, and I can send your name/email to those doing the work.

6) Ocean research sailing aboard the E/V Nautilus - www.nautiluslive.org and www.oceanexplorationtrust.org - Applications are now available for the chance to explore the Eastern Pacific Ocean with Dr. Robert Ballard's team of explorers the Corps of Exploration. This FREE opportunity for students and educators of all types allows individuals to sail aboard the E/V Nautilus as the team participates in scientific exploration of the ocean using two deep sea remotely operated vehicles (ROVs). They have programs for educators and high school students.

7) Educator trip to the Amazon - <http://www.amazonworkshops.com/educator-academy.html> - I'd love to go to the Amazon, though this one costs money - \$1375 + air (w/ a scholarship being offered now), July 1 to July 11th, 2016.

8) Workshop support

I enjoyed a recent opportunity to conduct a workshop in Waunakee for over 50 teachers from 9 school districts. We dug into visions for science education and research-based components of science lessons and assessments (aligned to WMAS, NGSS, and NRC framework). If you'd like to get a group of districts together, I'd be happy to come over and support your science efforts!