

WSST 2020 workshops

THURSDAY, March 19

8 -10:50 AM

- WT1.Student Inquiry Using Siftr
- Presenters: Joe Riederer riedererjt@gmail.com
- Learn to use Siftr, a free, user-friendly data collection/mapping app, as an inquiry tool in your classroom
- Cost = \$0
- LIMIT 30

8-10:50 AM

- WT2.A Picture Perfect Approach to Connecting Literacy and Science
- Presenters: Jen Gutierrez jengutierrez63@gmail.com
- Use picture books to integrate 3-dimensional science in elementary classrooms. Engaging activities including the science & engineering practices, 5E Instructional Model, and reading comprehension strategies.
- Cost = \$0
- LIMIT 50

8- 9:50 AM

- WT3.Analog Models of Groundwater
- Presenter: Carol McCartney, Pete Chase carol.mccartney@wisc.edu
Pete.Chase@wisc.edu
- What can we learn from groundwater models? Use a sand tank model, build your own shoe box model, and experiment with a karst model to find out.
- Cost = \$0
- LIMIT 20

8-9:50 am

- WT4.Effective Classroom Communication Through Improv
- Presenter: Anne Lynn Gillian-Daniel, Matthew Stilwell agillian@wisc.edu
mstilwell@wisc.edu
- In this interactive session, science communication professionals will lead improvisation activities and games to help participants increase their creativity, spontaneity, confidence, and positive communication skills.
- Cost = \$0
- LIMIT 50

8 - 9:50 am

- WT5.Literacy Connections: Adding Rigor to Science Literacy with STEMscopes
- Presenter: Kenn Heydrick, Michele Cozza kheydrick@acceleratelearning.com
mcozza@acceleratelearning.com
- Join us as we learn the power of using Science Literacy to engage students in reading,

writing, and discourse about science through text, inquiry, and media in collaborative groups, leading to student mastery and high achievement. Build the rigor and engagement for all students.

- Cost = \$0
- LIMIT 50

10-11:50 am

- WT6. Electricity and Environmental Literacy Encounters
- Presenter: Heidi Masters, Marcia Gardner hmasters@uwlax.edu
mgardner@lacrossesd.org
- Come and experience an electricity and environmental literacy unit we developed for fourth graders. We will share how the fourth graders responded to each lesson.
- Cost = \$0
- LIMIT 25

10-11:50 am

- WT7. Wisconsin Rocks in Your Classroom
- Presenter: M. Carol McCartney, Pete Chase carol.mccartney@wisc.edu
- Teachers will practice using the 15-piece Wisconsin rock and minerals kit they build. Materials provided free. Maps, lesson plans, and trading cards included.
- Cost = \$0
- LIMIT 50

1-2:50 pm

- WT8. Making Sense of Systems - an Important Crosscutting Concept
- Presenters: Sarah Adumat, Zong Vang sarah.adumat@oshkosh.k12.wi.us
zong.vang@oshkosh.k12.wi.us
- Make Systems accessible and explore a variety of system boundaries, components, interactions, and inputs/outputs. Make sense of the world through applying systems thinking!
- Cost = \$0
- LIMIT 30

1-1:50 pm

- WT9. Racially Conscious Teaching
- Presenters: Tasha O'Malley nromall@sunprairieschools.org
- We teach who we are first and the curriculum second. In a country where 80% of teachers are white and most are not racially conscious we need to work to first learn about ourselves as racial beings before we can effectively teach all kids. This workshop will take a dive into race, racial consciousness, bias, critical race theory and how to use all of these as tools to evaluate your curriculum, classroom and interactions with students, colleagues and families.
- Cost = \$0
- LIMIT 50

1-3:50 pm

- WT11.Engineering is Elementary - An Introduction
- Presenters: Dave Bergerson, Tim Cox dave.bergerson@wrps.net
tcox@berlin.k12.wi.us
- For K-5 teachers: Engineering is Elementary is a flexible STEM program developed by the Museum of Science in Boston. Attend for an abbreviated training of the program and introduction of ancillary units.
- Cost = \$0
- LIMIT 25

FRIDAY, March 20

8 -10:50 am

- WF12.NGSS Storylining: Orientation & Immersion in a Life Science Storyline
- Presenters: Dr. Jason Crean, Mrs. Kristin Rademaker, Ms. Nicole Vick, Mrs. Kathy van Hoeck jason@drclean.com krad70@gmail.com nicole81878@gmail.com
kathyvanhoeck@gmail.com
- Storylines led by engaging phenomena improve student engagement. Group hunting in lions, tusklessness in elephants, disappearing sea otters, and the plight of Tanzanian albinos can anchor instruction in meaningful ways.
- Cost = \$0
- LIMIT 25

8 -10:50 AM

- WF13.Is Science Really Objective? Bias and Racism in Science
- Presenter: Sara Krauskopf skrausk@wisc.edu
- The work of scientists reflects the values of society. Engage in a conversation around our responsibilities as science teachers as we consider historical and current examples.
- Cost = \$0
- LIMIT 25

8 -9:50 AM

- WF14.Making Students Scientists and Engineers: A Hands on Lab About Water Safety
- Presenter: Kathy Biernat kbiernat@stmaryeg.org
- In this workshop, you become a water treatment engineer making recommendations to treat a contaminated water supply after building filters, conducting tests and analyzing data.
- Cost = \$0
- LIMIT 50

8 -9:50 AM

- WF15.Dynamic DNA: Exploring Structure and the Flow of Genetic Information
- Presenter: Tim Herman, PhD herman@msoe.edu
- DNA is more than a double-stranded helix! Use a new, atomically-accurate model and other manipulatives to explore DNA structure and the processes of replication, transcription and translation.
- Cost =\$0
- LIMIT 30

8 -9:50 AM

- WF16.Where Have All the Fish Gone? - An Exploration into Impervious Surfaces
- Presenter: Steve Schmidt, Lynn Markham, Jenny Christopher
jenny.christopher@uwsp.edu lmarkham@uwsp.edu
- Explore how impervious surfaces affect Wisconsin fish and build a model that compares runoff as water moves to a lake.
- **Cost =\$15**
- LIMIT 15

10 -11:50 AM

- WF17.Using the Wisconsin Community Tree Map as a Classroom Tool: Tree Inventories and School Site Assessment
- Presenter: Kate Flick kflick@uwsp.edu
- Get on-boarded to the new WDNR civic science tool that allows students to collect tree data and assess diversity, calculation of urban tree benefits, etc.
- Cost =\$0
- LIMIT 20

10 -11:50 AM

- WF18.CRISPR: from adaptive immunity to genome editing
- Presenter: Tim Herman, PhD herman@msoe.edu
- Participants will work with two hands-on models that can be used to introduce students to CRISPR science connected to existing biology topics.
- Cost =\$0
- LIMIT 30

10 -11:50 AM

- WF19.Let's DIVE-in To Engineering and the Engineering Design Process
- Presenter: Kenn Heydrick, Michele Cozza kheydrick@acceleratelearning.com
mcozza@acceleratelearning.com
- Students get engaged with practical and inquiry-based engineering experiences by using the DIVE-in method. This program was developed in partnership with the New York Hall of Science. Transform your classroom into an authentic makerspace with the DIVE process. Learn how to facilitate and use the design process through consensus.
- Cost =\$0
- LIMIT 40

10 -11:50 AM

- WF20.Using Betterlesson.com
- Presenter: Mary Ellen Kanthack maryellen.kanthack@gcj2.k12.wi.us
- NEA/Betterlesson Master Teacher Project is a Great Teacher Resource for NGSS Science.
- Cost =\$0
- LIMIT 20

2 -3:50 PM

- WF21.Evolution for Educators
- Presenter: Kathy Van Hoeck kathyvanhoeck@gmail.com
- TIES helps teachers teach evolution with confidence. Participants will receive a free unit of materials and try out activities and a lab.
- Cost =\$0
- LIMIT 45

2 -3:50 PM

- WF22.Nanogenerator Power: Sustainable Energy from Motion
- Presenter: Matthew Stilwell, Anne Lynn Gillian-Daniel mstilwell@wisc.edu
agillian@wisc.edu
- Participants will build a low-cost device that converts kinetic energy into electrical energy and learn how these devices are sustainable energy sources.
- Cost =\$0
- LIMIT 40

2 -3:50 PM

- WF23.Diabetes and Making a Better Insulin: Protein Engineering With a Sweet Touch!
- Presenter: Tim Herman, Diane Munzenmaier herman@msoe.edu
- Explore diabetes and insulin at various levels with active learning: from protein structure-function to the engineering of insulin analogs for diabetes therapeutics.
- Cost =\$0
- LIMIT 30

2 -3:50 PM

- WF24.Let's Engage Students through Phenomena-based Science Instruction
- Presenter: Kenn Heydrick, Michele Cozza kheydrick@acceleratelearning.com
mcozza@acceleratelearning.com
- Science is about explaining the phenomena that occur in the world around us. In this session, participants will experience how phenomena is used during instruction and learn how to develop their own anchor and investigative phenomena to drive their lessons.
- Cost =\$0
- LIMIT 60

SATURDAY, March 21

8-10:15 am

- WT10. Discovering Energy in Nature
- Presenters: Laureanna Raymond-Duvernell swindjue@uwsp.edu
- Engage students in inquiry by utilizing technology to discover energy in nature. This session will involve collecting, analyzing, and making sense of data.
- **Cost = \$10**
- LIMIT 20

8-10:50 AM

- WS25. Supporting Molecular-level Understanding Under the NGSS
- Presenter: Ryan L. Stowe rstowe@chem.wisc.edu
- Workshop on how we might support students in relating atomic/molecular behavior to phenomena with an NGSS-aligned curricular activity system.
- Cost = \$0
- LIMIT 75

8-9:50 AM

- WS26. The Case of the Missing Babysitter--An Experience in the Science of Criminal Investigation
- Presenter: Charles Hatfield, Ann Mathu, Kathy Fabry hatcast@mwt.net
- School science often lacks reality. This classroom-tested unit places middle school students in the middle of a criminal investigation using scientific inquiry, standard lab procedures, technological resources, organizational skills, and good discipline.
- **Cost = \$15**
- LIMIT 25