

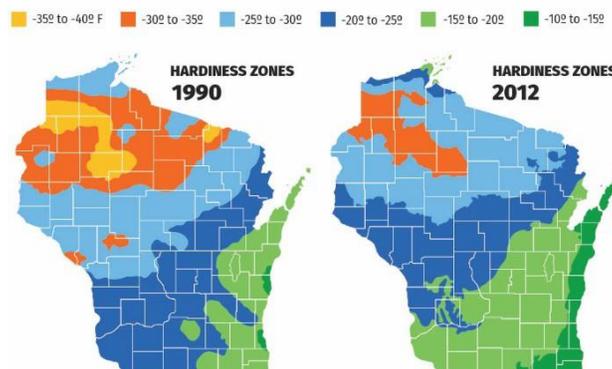
Climate Science Workshop for Teachers at the Wisconsin Science Festival

The Wisconsin Initiative for Science Literacy will hold a one-day, hands-on workshop for high school science teachers and first-year college faculty during the Wisconsin Science Festival. WISL aims to enrich excellence in classroom activities and is offering this day-long workshop on Climate Science.

We invite you to apply right away on August 24th as space is limited. We encourage sharing this announcement and application link with fellow teachers.

- WHEN:** Saturday, October 13, 2018
9 a.m.-Noon (break for lunch) 1:15-4 p.m.
- WHERE:** Discovery Building, UW-Madison Campus
- INSTRUCTORS:** Dr. Bassam Shakhshiri, Dr. Jerry Bell, Mr. Michael Boll
- ELIGIBILITY:** Wisconsin high school science teachers at public and private schools, and first-year college faculty
- ENROLLMENT:** Limited to 30

PLANT HARDINESS ZONES



Climate Science Concepts Fit Your Classroom

A hands-on workshop for science teachers

The Earth's climate is changing, and we are responsible.

It is important for all citizens to understand the changes—how our activities cause them, and the responsibility each of us must consider ways we might act to help lessen the disruption. This understanding can start with your students, in your classroom. You can use climate science concepts as a context for the topics already in your curriculum. You can use the concepts in your curriculum as a context for climate science topics. It is a win-win proposition, and the foundation for this workshop.

All change, including climate change, involves energy. Energy is conserved—the direction and extent of spontaneous change are determined by the redistribution (or spread) of energy resulting from this change. The concepts we explore through the morning activities include different forms of energy, the energy in light (electromagnetic radiation), the effects of different sources and wavelengths of light in regulating Earth's climate, molecular structure and the atmospheric greenhouse effect (possible misunderstandings), thermal energy (atomic-molecular motion), heat capacity, rates of change, isotopes in paleoclimatology, and atmospheric stoichiometry.

The concepts are developed by analysis of hands-on activities (and a few demonstrations) and/or analysis of data (especially graphical data) from NASA, NOAA, and peer-reviewed journal articles. Most of these activities can be adopted or adapted for your classrooms, while a few are designed to help deepen and expand your own knowledge of the concepts underpinning climate science and climate change.

All the written materials and slide presentations will be provided in electronic form for you to use. Throughout the workshop, we will discuss ways these might be incorporated in familiar curricula, perhaps with a climate science twist. We will also engage in discussion that goes beyond course content to explore why incorporating these concepts in your classroom and to community outreach is so important, and your vital role as an exemplar empowered by understanding.

Wisconsin Initiative for
Science Literacy
www.scifun.org