

Beyond Lifelines

Presentations from other projects (outside of Lifelines)

Listed on this page are archived presentations available from sources other than the Lifelines project.

2012 Nov 15–16. Howard Hughes Medical Institute – Holiday Lectures (requires registration) – [Changing Planet: Past, Present, Future](#). 3 presenters: Andrew H. Knoll of Harvard University, Naomi Oreskes of the University of California, San Diego, and Daniel P. Schrag of Harvard University.
<http://www.hhmi.org/biointeractive/hl/>

2012 May 15. [Making informed choices about energy and sustainability](#). by Dr. John Turner, Scientist, National Renewable Energy Lab (NREL) and Kristen Record, Educator. This interactive webinar is designed to help secondary school teachers teach about energy resources. The focus of this session is on the kinds of decisions, innovations, and efficiencies that will need to be in place in order to develop a global sustainable energy supply, which is part of Teaching Energy Awareness of the Climate Literacy Principles.

2011 Nov 15. [Teaching Essential Principle #3: Life on Earth depends on, is shaped by, and affects climate](#)
Content Focus: the biosphere as a major driver of the global carbon cycle and how changes in the carbon cycle impact ecosystems. Presenters: Juliette Rooney-Varga, University of Massachusetts, Lowell; Candace Dunlap, TERC, Cambridge, MA; Contributing CLEAN Partners: Inspiring Climate Education Excellence (ICEE) and EarthLabs

2011 Oct 19. [Teaching Essential Principle #2: Climate is regulated by complex interactions](#). Goal: to highlight the big ideas in understanding how greenhouse gases and feedback loops influence Earth's climate, and identify resources from the CLEAN collection that teachers can use to teach these ideas. Presenters: Tamara Shapiro Ledley, TERC, Cambridge, MA; Susan Buhr, CIRES, University of Colorado Boulder; Jeff Lockwood, TERC, Cambridge, MA. Contributing CLEAN Partners: Inspiring Climate Education Excellence (ICEE) and EarthLabs.

2011 Sep 19. [Teaching Essential Principle #1: The Sun is the Primary Source of Energy for Earth's Climate System](#). To highlight the big ideas in understanding energy balance in the Earth's climate system and identify resources from the CLEAN collection that teachers can use to teach these ideas. Presenters: Tamara Shapiro Ledley, Jeff Lockwood, TERC, Cambridge, MA; Susan Buhr, CIRES, University of Colorado Boulder

2011 Jul 1. [Kevin Trenberth](#) on Breakfast Show (ABC National—Australia) One of the world's leading climate scientists, Kevin Trenberth, explains what's causing recent wild weather and why he has no doubt that humans are contributing to the increased

has no doubt that humans are contributing to the increased incidence and severity of these weather events. [Also spoke at the Earth on the Edge conference in Melbourne—more than 4,000 earth scientists and experts from more than 100 countries.]

2011 Jun 7. [Whither Arctic Sea Ice?](#) webinar to highlight research on changes in sea ice extent in the Arctic, and resulting implications for the Arctic food web and human activities. Speaker: Dr. Walt Meier, a research scientist at the National Snow and Ice Data Center (NSIDC), part of the University of Colorado Boulder's Cooperative Institute for Research in Environmental Sciences. His research focuses on studying the changing sea ice cover using satellite sensors and investigating impacts of the declining Arctic sea ice on climate.

2011 Apr 8. [The Energy–Water Nexus](#). **Science Education Resource Center (SERC), Carleton College**. Energy is required to extract, deliver, and process water supplies; **and** the most widely used means of energy production require significant quantities of water. These may be taught in a decoupled manner, but energy and water systems are inextricably linked and the interrelationship has been labeled the "energy–water nexus."