

Watch live at www.energy.gov/EarthDay on April 22, 2022!



U.S. DEPARTMENT OF
ENERGY

**NATIONAL
LABORATORIES**

Earth Day Event

Schedule

● For grades K-8

● For grades 9-12

Time (Eastern)	Activity	Description
8:30 AM	Opening and Welcome	Join us for a special welcome and overview of Earth Day with the National Labs.
8:45 AM	Here Comes the Sun	Kick-off Earth Day by taking a close-up look at the Sun through a telescope! We'll give a brief overview of Jefferson Lab, followed by a talk about astronomy, telescopes and the Solar System.
9:15 AM	Virtual Tour of the National Energy Technology Laboratory (NETL)	Tour NETL's nation-wide facilities striving to ensure affordable, abundant and reliable energy while developing technologies to manage carbon and enable environmental sustainability.
10:00 AM	Planting with a Purpose at Argonne National Lab	April showers bring May flowers, but they also bring flooding which can spread pollution! Create models to experiment with how we can reduce flooding and pollution.
10:30 AM	Science Education Plasma Demos with PPPL	Plasmas are Everywhere! Learn about all the plasma around in our everyday lives through interactive demos with scientists from the Princeton Plasma Physics Laboratory.
11:15 AM	Energy, Climate, CO2 & You	Stephen E. Schwartz, atmospheric scientist at Brookhaven Lab, presents an interactive talk designed for elementary and middle school children and their families.
12:00 PM	A Day in the Life: Researchers at National Labs	Join us for a moderated panel with national laboratory researchers. Learn about their career pathway and the work they do now. (Multi-Lab Event)
12:45 PM	Worming Your Way into Composting with Fermilab	Did you know that you can reduce greenhouse gases and slow climate change by growing worms? Learn an easy way to use nature's "living garbage disposal" to recycle food scraps into a nutrient rich compost for your plants.
1:30 PM	Build Your Own Solar Oven with Sandia Labs	Visit the National Solar Thermal Test Facility (NSTTF) and build your own solar oven with Sandia Engineers.

All times in Eastern Time zone

Time (Eastern)	Activity	Description
2:15 PM	Renewable Energy Demonstration: Creating Wind Energy with NREL	Learn how researchers turn the energy of wind and water into electricity! Join National Renewable Energy Lab educators in creating your own wind turbine with basic materials.
2:45 PM	Carbon Flux and Mercury Speciation Q&A	Learn about carbon fluxes, new technological advances in detecting mercury, and the work of scientists in South Carolina from Savannah River National Laboratory.
3:15 PM	Ask a Scientist with the National Labs	Have questions about the environment or research at the National Labs? Ask here! (Multi-Lab Event)
4:00 PM	Flooded Classroom: A Virtual Exploration of a Coastal Ecosystem	Explore coastal ecosystems via an engaging virtual activity with Pacific Northwest National Laboratory researchers.
4:30 PM	Dive into Recycling with the BOTTLE Consortium at LANL	Learn how biocatalysts work to break down plastics with this session from Los Alamos National Laboratory. Scientists will be available to answer questions from participants.
5:15 PM	OPS-CAR: ORNL Platform for Sensor and Control Autonomy Research	Come explore the future of automated driving in DOE's only designated user facility focused on performing early-stage research and transportation technology development.
5:45 PM	Energy and the Environment with Lawrence Livermore National Laboratory	Join scientists from LLNL as they give selected presentation highlights on topics including the role of microalgae in global carbon cycling, fusion energy, and climate modeling.
6:30 PM	Unveiling BioEPIC: The Collaborative Future of Research in Biological and Environmental Processes	Learn about BioEPIC, the newest research facility at Berkeley Lab and how the LEED-certified space will bring together biologists and earth and environmental scientists into teams for solving pressing environmental problems.
7:15 PM	Earth Day Ceremonies with Idaho National Laboratory	Our Sunrise-to-Sunset celebration concludes an overview of activities from INL which include traditional a sunrise ceremony act to honor Earth Day. INL will host tribal elders, neighbors and partners, the Shoshone-Bannock Tribes for this collaborative project.
8:00 PM	Closing	

