

Fermilab Family Open House



2020 Fermilab Family Open House

<https://ed.fnal.gov/events/openhouse/>

- The Family Open House, held annually, attracts over 4,000 people to Fermilab.
- Events include a Physics Carnival, site tours, The Great Neutrino Hunt, performances by Mr. Freeze and many chances for the public to interact with Fermilab staff.
- In 2021 the event will be held virtually over 5 days.
- Example activities include:
 - “Be a Part of pARTicles” art exhibit
 - 5-day scavenger hunt
 - Fermilab Story Reads
 - Virtual Classroom visits
 - “Iron Scientist” competition

Physics on demand: Fermilab's annual Family Open House goes virtual Feb. 10-14

January 26, 2021

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The annual Family Open House at the Department of Energy's Fermilab gives families an opportunity to learn about science in a fun, interactive way. Last year's event brought 4,000 visitors to Wilson Hall. This year, the [Family Open House](#) has been reimagined in a virtual format so that kids and parents can experience America's premier particle physics laboratory from the safety and comfort of their homes.

Past Family Open Houses were single-day events, but this year's Virtual Open House will run for five days, from Feb. 10-14, with "on-demand" content available 24/7, as well as live-streamed events. Activities will include pre-recorded demos and activities for all ages, trivia games, tours of the lab facilities, a community art show and more — all free for everyone to enjoy. [Register to sign up for Open House offerings.](#)

Perennial favorites like the Mr. Freeze cryogenics show and Ask-A-Scientist will make an appearance via Zoom. Virtual visitors can also tune in to webinars on a wide variety of topics, including physics, art and ecology. Since the event will take place from Wednesday through Sunday, there will be special opportunities for educators to engage in the event with their classes, much like virtual classroom visits from Fermilab staff.

On Wednesday, Feb. 10, clues will be released on the Fermilab [Office of Education and Public Engagement website](#) and social media for a "scavenger hunt." These clues will lead participants through various activities, such as building a model of a particle accelerator or counting how many cosmic rays pass through one's house in a given amount of time. Participants can submit their scavenger finds throughout the week. Also, at 7 p.m. Central time each day, there will be a Facebook Live STEM story time featuring lab staff reading STEM-themed bedtime stories.

The five-day event will culminate with an "iron scientist" competition on Sunday, which will include a Fermilab staff member going head-to-head with a challenger from Northern Illinois University in a battle of homemade physics demos. Inspired by cooking shows like "Iron Chef" and "Chopped," each competitor will receive a box of mystery items to use in their demonstrations. Whoever creates the most exciting homemade demo wins!

The virtual format will offer an unusual chance to peek inside facilities such as the Quantum Lab and ecological goings-on at Fermilab that would be difficult to view in person (especially in February). It also makes Fermilab accessible to people who don't live near the lab's Batavia, Illinois, site.

"We've never done anything like this before, but I think it's going to be great," said Amanda Early, Fermilab education program leader. "It's really cool that, regardless of where people are located, they can learn more about us."

For more information or to register for any of the live-streamed events, visit <https://ed.fnal.gov/events/openhouse/>, and follow the Fermilab Office of Education and Public Engagement on [Facebook](#) or [Twitter](#) for live updates!

Fermilab is America's premier national laboratory for particle physics and accelerator research. A U.S. Department of Energy Office of Science laboratory, Fermilab is located near Chicago, Illinois, and operated under contract by the Fermi Research Alliance LLC, a joint partnership between the University of Chicago and the Universities Research Association, Inc. Visit Fermilab's website at www.fnal.gov and follow us on Twitter at [@Fermilab](#).

The DOE Office of Science is the single largest supporter of basic research in the physical sciences in the United States and is working to address some of the most pressing challenges of our time. For more information, please visit science.energy.gov.

Tagged: education, Family Open House, open house, outreach



Fermilab's annual Family Open House includes activities for all ages. This year's event will take place virtually Feb. 10-14. Photo: Fermilab

2021 Fermilab Family Open House Week Long Events

Scavenger Hunt:

People can submit pictures of completing the clues. Sample clue is build a 1:100 scale model of a DUNE detector

On-Demand Interactive Activities:

Pre-recorded or live video demonstrating different physic concepts for people to do at home

Be a part of pARTicles:

Community art show with submissions coming in from around the world!

Kids Interviewing Lab Staff:

Office of Communications will workshop questions with students (elementary) and will then set up a schedule to record interviews with lab staff to post each day.

11:00 AM & 2:00 PM Wednesday through Friday

Teachers can sign up their classes to meet with lab staff

7:00 PM

STEM Story Walk: Facebook Live

Lab staff read STEM stories to kids

2021 Fermilab Family Open House Live Event Schedule

Wednesday, February 10	Thursday, February 11	Friday, February 12	Saturday, February 13	Sunday, February 14
10:00 AM Introduction to Science at Fermilab	10:00 AM Quantum Lab Virtual Tour	10:00 AM From Concept to Experiment Talk	10:00 AM ProtoDUNE Virtual Tour	1:00 PM Ask-a-Scientist: Science of Physics Demos
1:00 PM Cosmic Ray Lab	1:00 PM Lederman Science Center Virtual Tour	1:00 PM Ecology Virtual Tour	1:00 PM Fermilab Trivia	2:30 PM Art and Science at Fermilab
4:30 PM Fermilab's Bird Monitoring	4:30 PM Fermilab Prairie Seed Harvest	4:30 PM What are soil scientists investigating at Fermilab?	2:00 PM Ecology Talk	3:00 PM Simon Says Make an Electromagnet
7:30 PM International Women in STEM: Women of Fermilab	7:30 PM Finding the Significant in the Insignificant: Jim Jenkins	7:30 PM Pecha Kucha	Mr. Freeze	3:30 PM Bats in Illinois and around Fermilab
			7:30 PM Particle Physics Contribution to Medicine - Panel	7:30 PM Iron Scientist

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2021 Virtual Family Open House: February 10-14

Fermilab is going to open our house ... in *your* house! Instead of an on-site open house this year, we're planning five days of online events and activities that you can join from wherever you are! **Events and registration links are added each day. Check back often for updates!**

Wednesday, February 10



**Science at Fermilab
(10:00 AM)**



**Classroom Visit:
Mechanical Engineer**

Priority registration for teachers
(11:00 AM)



**Classroom Visit:
Scale of the Universe**

Priority registration for teachers
(2:00 PM)



**Fermilab's Bird Monitoring:
Guiding Stewardship of the
Land**

(4:30 PM)



**International Women in
Science:
Women of Fermilab**

Registration opens soon!

(7:30 PM)

BISON CAM IS COMING!!