

Fermilab: Bringing Science Education to You
Education Program E-Alert — January 2019 – August 2019
Calendar • What we're planning • From the TRC
<http://ed.fnal.gov>

Spread the word to your colleagues.

Find interesting opportunities and resources in the Fermilab Office of Education and Public Outreach E-Alert newsletter. E-mail sdahl@fnal.gov to be added to or deleted from our mailing list.

Special Announcement: Docent positions available!

Have you held a lifelong curiosity about the scientific world from insects to quantum physics? Do you enjoy working with and learning from other science-minded people? Does passing scientific understanding on to others excite you? Are you energized around groups of all ages, especially children and youth? Well, then, do we have an opportunity for YOU!

Fermilab's Office of Education and Public Outreach seeks docents; professionals who enjoy a learning challenge with an opportunity to work with students of all ages and with the public, on a paid, part-time, on-call basis.

Docents lead guided tours, field trips and so much more in physical and life sciences throughout the year. A desire to share the mission of Fermilab with others and to get students and adults excited about science is paramount. We welcome your expertise! Please visit <http://fermilab.jobs> to apply for the On-call Docent position. After viewing the position online, contact Maureen Hix at 630-840-5058, mhix@fnal.gov, if you have questions.

Calendar

For Families

February 10, 2019 – [Fermilab Family Open House](#)

March 10, 2019 – [Wonders of Science](#)

For High School Students

April 17, 2019 – [Science, Technology, Engineering and Mathematics High School Career Expo](#)

For Teachers

February 17, 2019 (Deadline) – Teacher Research Associates Program at Fermilab

March 1, 2019 – Area-wide Institute Day workshop: Engineer a Super Seed!

March 10, 2019 (Deadline) – FFSE [Scholarship Application Site](#)

Elementary Teachers

June 19–21 – [The Prairie – Our Heartland](#)

June 17–18 – [Insects at Work in Our World](#)

July 22–23 – [Phriendly Physics](#) (grades K–2)

July 24–26 – [Phriendly Physics](#) (grades 3–5)

Middle Level Teachers

July 15–19 – [Beauty and Charm](#)

July 29–August 2 – [Energy and Ecosystems: Prairie, Water and Woods](#) (formerly Particles and Prairies)

High School Teachers – Summer Secondary Science Institutes

June 17–21 – Summer Secondary Biology Institute

June 17–21 – Summer Secondary Chemistry Institute

June 17–21 – Summer Secondary Physics Institute: Waves, Sound and Optics

June 24–28 – Summer Secondary Physics Institute: Electricity and Magnetism

What we're planning

Fermilab Family Open House

February 10 – 1:00 p.m.–5:00 p.m.

The FREE open house will be most appropriate for families with children in grades 3 and up. Tours restricted to those ages 10 and up. Go to the website to register for the tours. Watch the website for updates.

Wonders of Science (Ages 7–12)

March 10 – 1:00–2:00 PM

Tickets: \$5.00/person (nonrefundable). Online registration and payment available.

Contact edreg@fnal.gov (preferred) or 630-840-8258 with questions. Printable registration forms available on our website at http://eddata.fnal.gov/lasso/program_search/wos_form.html.

Science, Technology, Engineering and Mathematics High School Career Expo

April 17 – 5:30 p.m.–8:30 p.m.

High school students from Kane and DuPage Counties are invited to meet scientists, engineers and technicians from many STEM careers; ask career questions of the experts; attend panels to learn more. The program at Fermilab's Wilson Hall (high rise) is FREE with no registration required. Posters will be in the mail and available to download from this site: <http://ed.fnal.gov/programs/careerfair/posterpage.html>.

Teacher Research Associates Program at Fermilab

<http://trac.fnal.gov>

Appointments through the Teacher Research Associates (TRAC) program are expected to be available for Summer 2019. TRAC program goals are to provide outstanding science, mathematics, computer science and technology teachers with professional scientific, engineering or technical experiences through summer research opportunities. Participants can transfer their increased awareness and understanding of cutting-edge science and technology back to the classroom. The eight-week appointments have a salary of \$1,040 per week. See details on the website. The expected application deadline is February 17, 2019.

Area-wide Institute Day

March 1 – 8:30 a.m.–2:30 p.m.

The Fermilab Office of Education and Public Outreach is offering the following session in support of the area Institute Day:

Engineer a Super Seed!

Maureen Hix and Amanda Early

Struggling to find an engineering design challenge for your life science content? Explore the science and engineering practices and crosscutting concepts through an NGSS aligned, life science-focused, engineering activity. Consider what the three dimensions of the NGSS look like at different grade levels. Explore resources to help you design life science activities with an engineering component. Learn about hands-on, field-based trips and support opportunities through the Fermilab Office of Education and Public Outreach.

Registration information is available at http://eddata.fnal.gov//lasso/program_search/show_workshopID_new.lasso?event_id=452.

Scholarships for Teacher Workshops, Science Adventures and Transportation

http://ed.fnal.gov/ffse/ed_ffse_scholarships.html

Funding for professional development for teachers and enrichment for students such as doing science in the field is becoming increasingly difficult for schools. We also know that not all families have the opportunity to enroll students in science and math enrichment classes. Fermilab Friends for Science Education offers scholarships for teachers to attend summer workshops and to assist with field trip transportation expenses, and provides scholarships to families for student classes held at Fermilab. Deadline to apply is March 5 for workshops held during Summer 2019 and field trips for the 2019–2020 school year. Applicants will be notified by April 9, 2019.

Science Adventures

<http://ed.fnal.gov/sciadv>

Science Adventures, informal classes for students in grades PreK–10, continue on Saturday throughout the school year. See the home page link for Science Adventures for a listing of current classes. Interested in being a Science Adventures instructor? Contact [Susan Dahl](#).

Classroom Presentations

http://ed.fnal.gov/trc_new/demos/

Fermilab volunteers offer interactive presentations to enhance your classroom curriculum. If your school is within reasonable driving distance of the lab, Fermilab scientists, engineers and technicians bring presentations to your students. Presentations are geared toward students in grades 2 through 12 and are free of charge to classrooms. Select a topic related to your curriculum, a few optional days, and read the "Additional Information" link regarding how many presentations and students can be accommodated.

Like the Fermilab Education Office Facebook Page.

If you are a Facebook member, you'll receive updates from us if you "Like" our page. Join a group. When logged into Facebook, go to the top search box and search for "Fermilab Teacher Resource Center" and click "Ask to Join Group" on the top right. As a member, you can read and post questions and comments to the other members of this group. You can also have online chats with other members of the group.

Contact Program Staff

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