

Fermilab Education Program E-Alert – September 2018 – Spring 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 Education Office E-Alert newsletter. E-mail sdahl@fnal.gov to be added to or deleted from our mailing list.

Calendar

For Families

February 10, 2019 – [Fermilab Family Open House](#)
Spring 2019 – [Wonders of Science](#)

For High School Students

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

For Teachers

October 19–20 – Illinois Science Teachers Association Conference. See us there!
November 12 – Northern Illinois Science Educators Conference. See us there!
February 17 (Deadline) – Teacher Research Associates Program at Fermilab
March 1 – County Institute Day. See us at an institute near you!
March 5 (Deadline) – FFSE Scholarship Application Site will open November 20.

Elementary Teachers

June 17–18 – [Insects at Work in Our World](#)
June 19–21 – [The Prairie – Our Heartland](#)
July 22–26 – [Phriendly Physics](#)

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 (tentative)
June 17–21 – Summer Secondary Physics Institute: Waves, Sound and Optics
June 24–28 – Summer Secondary Physics Institute: Electricity and Magnetism

We continue to update our high school institutes to incorporate the Next Generation Science Standards and provide a related Fermilab field trip experience. See website for updates.

What we're planning

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. The online scholarship application form will open November 26. Deadline to apply is March 10 for workshops held during Summer 2019 and field trips for school year 2019–2020. Applicants will be notified by April 15, 2019.

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 \$700 per week. See details on the website. The expected application deadline is February 17, 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 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. Watch the website as we post new presentations.

Save the Date

Fermilab Family Open House

February 10, 2019 – 1:00 p.m.–5:00 p.m.

<http://ed.fnal.gov/ffse/openhouse/>

Science, Technology, Engineering and Mathematics High School Career Expo

April 17, 2019 – 5:30 p.m.–8:30 p.m. (Tentative Date)

<http://ed.fnal.gov/programs/careerfair/>

Wonders of Science

Spring 2019 – 1:00 p.m.–5:00 p.m.

<http://ed.fnal.gov/events/wos/>

From the Teacher Resource Center

Are you looking for **STEM or engineering materials, science or math curriculum** for your classroom? The Teacher Resource Center has an ever-growing, up-to-date collection of materials at all grade levels. Schedule time to examine materials or discuss free NGSS or targeted professional development for your school or district.

http://ed.fnal.gov/trc_new/index.shtml

What We're Reading

As we celebrate the diverse community of students, teachers and the public we interact with through a myriad of Fermilab Education and Public Outreach programs, we strive to

incorporate best practice from the educational field. Some resources we found interesting and useful lately are listed below.

Budge, Kathleen M. and William H. Parrett. *Disrupting Poverty: Five Powerful Classroom Practices*, Alexandria, VA: Association for Supervision and Curriculum Development, 2018. ISBN: 978-1-4166-2527-8

Krownapple, John. *Guiding Teams to Excellence with Equity: Culturally Proficient Facilitation*, Thousand Oaks, CA: Corwin Press, 2017. ISBN: 978-1-4833-8698-0

Minkel, Justin. "How Can White Teachers Do Right by Students of Color?" *Education Week Teacher*. Accessed online: <https://tinyurl.com/yc4chlbu>

Oluo, Ijeoma. *So You Want to Talk about Race*, Seal Press, Hachette Book Group, 2018. ISBN-10: 1580056776

See also Yorio, Kara. "Educators and Race: A Conversation with Author Ijeoma Oluo on Tackling Systemic Racism in U.S. Education," *School Library Journal*, August 27, 2018. Accessed online: <https://tinyurl.com/y9ugpa98>

Smith, Dominique, et al. *Building Equity: Policies and Practices to Empower All Learners*, Alexandria, VA: Association for Supervision and Curriculum Development, 2017. ISBN: 978-1-4166-22426-4

Visit our website – <http://ed.fnal.gov>

For more details on programs, follow any of these links from the home page:

"**Quick Links to Programs**" links to "**Teacher Workshops**." Use the "**Calendar**."

"**Search Programs**" lets you set the parameters for programs of interest to you.

Use the "**Educators**" tab or **follow the links** listed below.

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. We may add groups in the future for other areas of interest.

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