



Programs at the Lederman Science Center

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Community Advisory Board Meeting

28 March 2019

When last we met....

Last year, I presented to you an overview of all of our education programs, but that was in a conference room—today is much more fun!

This time I'm going to focus on this building and the things we do here:

- Field trip programs
- Programs for kids
- Workshops and resources for teachers
- Public programs

But first, the building itself....

If you haven't seen it, it's new to you!

Refresh of our exhibit spaces:

- New color scheme
- All-new signage
- Two new exhibits

First major refresh of the Lederman Science Center look since it was built



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Exhibits

Exhibits tell the story of Fermilab physics:

- Tools (Accelerators & Detectors)
- Methods
- Ideas

Outdoor exhibits, funded by grant through FFSE, highlight waves, neutrinos, and our accelerator complex.



Field Trip Programs

Five K–8 field trip programs use this building:

- Beauty & Charm at Fermilab
- Phriendly Physics
- Energy & Ecosystems
- The Prairie—Our Heartland
- Insects at Work in Our World

The Beauty and Charm program features the exhibits, and some high school field trips visit them as well. Phriendly Physics uses the exhibits and the multifunctional spaces for activities. The ecology field trips and the high school life science field trips use the lab.

More than 5,000 K–8 students visited the LSC in CY2018.



Workshops for Teachers

Two types of teacher workshops:

- Field trip workshops
 - Each is associated with the instructional unit that supports one of our K–8 field trips.
 - After taking the workshop, teachers teach the unit and can bring students on field trips for free.
- Teacher Resource Center workshops:
 - Customizable to the needs of a school, district, ROE, or university
 - Many types offered: Curriculum analysis, NGSS alignment, science and engineering practices planning



Teacher Resource Center

Preview collection of PK–12 STEM instructional materials and professional development resources:

- Curriculum materials
- Trade books
- Education journals
- Standards and reports

The TRC supported 235 educators in CY2018.



Programs for Kids

Classes and programs for kids outside of a school setting:

- Science Adventures:
 - Classes held throughout the summer and on school year Saturdays
- Scout programs
 - Serving Boy Scouts, Girl Scouts, Webelos, and Cadettes



These programs served more than 1,000 students in CY18.

Public Programs

Two programs focus on our public visitors:

- The Outdoor Family Fair is held here every June.
 - Wonderful event that focuses on our life science programs and partnerships
- Get to Know the Lederman Science Center:
 - Monthly tour through which a docent gives a guided tour of the exhibits to students and parents

Both of these programs are funded by Fermilab Friends for Science Education.



Summary:

- We make use of the building for a wide variety of programs and activities.
- The exhibits tell the story of Fermilab physics.
- Thrilled to have a new look for our exhibit spaces
- Looking to improve other spaces in the building, and to incorporate new technologies into our exhibits and programs
- Program-centric; welcoming to the public.
- Multifunctional spaces allow flexible use.