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Fermilab Friends' graphics incorporate an image of one of Robert Wilson's best known sculptures, Möbius Strip. Slicing a Möbius strip lengthwise results in two interlinked loops, an appropriate metaphor for the relationship between FFSE and the Fermilab Education Office: separate, yet tightly linked.



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FERMILAB DIRECTOR

Dear Fermilab Friends for Science Education,

Thank you for your support of STEM education and for everything you do for the truly diverse set of young people that pass through Fermilab week in and week out that have a blossoming interest in science and engineering. You are our conduit to developing and curious young minds.

The Lederman Science Center is a model of success for which the Fermilab community is proud. I often like to refer to the number of lives touched by our education program every time I speak, nationally or internationally. The numbers are very impressive and clearly must have an amazing impact.

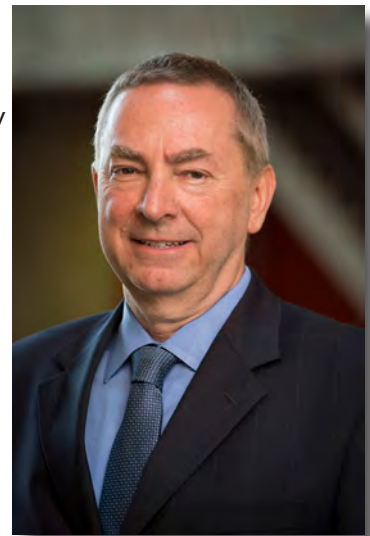
I was fortunate to recently see the new exhibit in neutrinos, which I thought was excellent. It is one of many “tools” developed to help explain particle physics to young people. As we attempt to form a “neutrino” vision for the future, we hope our education programs will reflect that new view. It is truly exciting science.

The support of Fermilab Friends for Science Education continues to be an integral part of what we do here at Fermilab. The role you play in support of education programs is important in seeding new initiatives so that STEM teaching can be strengthened. We need the next generation of young scientists to flourish and help our nation address its scientific and technical challenges. We know that particle physics and Fermilab attracts the brightest students from all over the world to the excitement of our field. This greatly benefits our region and the US.

The entire Fermilab community is proud of what you do and I appreciate greatly, once again, your continuing support. Your efforts are well worth it.



Nigel S. Lockyer
Director of Fermilab



FROM THE FFSE PRESIDENT



Susan M. Dahl
President, Fermilab Friends for Science Education

A handwritten signature in blue ink that reads "Susan Marie Dahl". The signature is written in a cursive style and is contained within a white rectangular box.

PROGRAMS IN 2015

FERMILAB FAMILY OPEN HOUSE

The Fermilab Education Office and FFSE hosted its eleventh annual Family Open House in February, with nearly 3,000 people in attendance. The open house featured presentations by Mr. Freeze (Jerry Zimmerman) and astrophysicist Brian Nord, as well as the fifth "Physics Carnival," in which 29 physics students from four high schools designed hands-on activities and shared them with visiting students. Other attractions were Ask-a-Scientist, the Art@CMS exhibit in the Fermilab Art Gallery, and tours of the Linear Accelerator, both Remote Operations Centers, the Muon g-2 experiment, and DZero. This exciting annual event is sponsored in part by a generous FFSE anonymous donor.



STEM CAREER EXPO



STEM is HOT! Just ask the participants of the annual STEM Career Expo in April 2015. Nearly 700 students from the Greater Chicago area engaged in discussions with scientists, engineers and technicians as they asked questions and explored career paths. We had 150 STEM professional volunteers in attendance. Students listened to career panelists and discussed their selected career fields with professional association representatives. How many of these students' interests were piqued in new fields? How many are now even more committed to their dreams? Time will tell; perhaps some of these promising students will one day return to work at Fermilab! The event is a collaborative event organized by the Fermilab Education Office and educators and career specialists from Kane and DuPage County schools. Sponsors included Fermilab Friends for Science Education, Batavia High School, Geneva Community High School, and Valley Education for Employment System.

OUTDOOR FAMILY FAIR

The 2015 Fermilab Outdoor Family Fair had an estimate of 400 visitors on the afternoon of Sunday, June 14. The Fermilab Fire Department allowed children to climb up into the driver's seat of their fire truck and into the back of the ambulance. The Naperville Astronomical Association had families safely looking at sun spots through their telescopes. The Northern Illinois Raptor Rehabilitation and Education Center brought falcons and hawks for visitors to see and learn about, and talons and feathers to touch. The Fermilab Junior Prairie Rangers and Eco Rangers volunteered working with the visiting children at various stations, sweeping for insects, timing runners at the bison run, helping to identify pond critters, making animal tracks and manning other stations.

Families discovered aspects of physical science, too. Acting as protons and antiprotons, families learned about Fermilab's accelerators and detectors by running around the "Run Like a Proton" path. They were challenged to make a standing wave by using the new exhibit, "Wave Like a Particle." All in attendance had much outdoor FUN!



CONGRATULATIONS TO HONOREES!

DIRECTOR'S AWARD FOR EXCEPTIONAL VOLUNTEER SERVICE

Fermilab's Education Office volunteers act as teachers, mentors, instructors and role models for the scientists and citizens of the future. They meet with visiting school groups, help design and maintain exhibits at the Lederman Science Center, visit area classrooms and much more.

In most years one volunteer is named as recipient of the Director's Award for exceptional volunteer service.

At the annual volunteers' reception on November 18, Fermilab Chief Operating Officer Tim Meyer presented **David Harding**, Technical Division deputy head, with the 2015 Director's Award. Fermilab Friends for Science Education supports the award with funds from an anonymous donor. Other nominees were: **Maurice Ball, Jamie Blowers, Stefan Gruenendahl, Brendan Kiburg, Bill Lee, Jyotsna Osta, Mandy Rominsky, Marc Weinberg, and Jin-Yuan Wu.**

Dave Harding has contributed to Fermilab's Classroom Physics Presentations program since its inception, visiting local classrooms with science demonstrations to inspire students. He developed the Physics of Sports module and trains other scientists as presenters for the program. Since 2007 he has been a fixture at the annual Fermilab Family Open House, demonstrating Lenz's Law to hundreds of awestruck children (and adults). He also educates outside the classroom, leading tours for Saturday Morning Physics and for other student groups that visit Fermilab on field trips. He has been active in the American Institute for Physics Adopt-a-Physicist program since it began.

Dave has been a member of the Fermilab Friends for Science Education board for many years. He currently serves as membership vice president.



PROGRAM SCHOLARSHIPS

FFSE scholarships provide opportunities for teachers to expand their knowledge of science and math topics. Scholarship applications open in late fall and close March 1. Awardees are notified in late spring.

Eight teachers received scholarships for teacher workshops this year: **Noreen Corbett**, Particles and Prairies; **Jadwiga Gawlik**, Waves, Sound and Optics; **Tammy Gorham**, Teaching NGSS Crosscutting Concepts in Chemistry; **Lisa Johnson**, Biology Secondary Institute; **Christine Mason**, Friendly Physics; **Katrina**

Mason, Insects at Work in Our World; **Jen Miller**, Waves, Sound and Optics; **Sarah Perez**, Waves, Sound and Optics; and Friendly Physics field trip.

Two teachers received scholarships for bus transportation to Fermilab field trips.

Seven families received scholarships enabling children to attend Science Adventures at Fermilab.

FERMILAB SCIENCE AWARD FOR HIGH SCHOOL STUDENTS

Every year FFSE underwrites an award program for outstanding science students attending high schools in DuPage and Kane Counties.

Nominated by school faculty, each winner receives a certificate and a book at their school's award ceremony.

This year's winners were:

Gabriel Boebel, Alex Vonderhaar, Aurora Central Catholic High School; **Emil Broemmelsiek**, Batavia High School; **Matthew Zdun, Max Potvin**, Benet Academy; **Areeba Mazher, Mujahid Zaman**, College Preparatory School of America; **Alex Kubinski, Aaron Klapatch**, Community High School; **Reese Richardson, Eric Wynne**, Downers Grove South High School; **Diana Nocelotl, Alfonso Alvarado**, East Aurora High School; **Erin Hughes**, Elgin Academy; **Klee Pollock, Talia Fossa**, Elgin High School; **Sebastian Dobon**, Fenton High School; **Emma Hazel, Tyler Rasmussen**, Geneva High School; **Corie Ewoldt, Jaymin Patel**, Glenbard East High School; **Jaafar Zaidi**, Hampshire High School; **Michael Sisko, Blake Nicholson**, Harvest Christian Academy; **Sunil Dommaraju, Muffaddal Burhani**, Hinsdale High

School; **Brendan O'Brien, Patrick Guinan**, IC Catholic Prep; **Emily Mu, Sattvic Ray**, Illinois Mathematics and Science Academy; **Anthony Golbeck, Romone Randle**, Kaneland High School; **Vinit Vaghani, Brian Bayer**, Lake Park High School (East Campus); **Manuel Alcaraz, Brenda Vazquez**, Larkin High School; **Kim Meifert, Sofia Yunez**, Montini Catholic High School; **Isabel Fan, Matthew Wu**, Naperville Central High School; **Robert Barr, Kyle Rogers**, Neuqua Valley High School; **Isabelle Ylo, Genevieve Streich**, Rosary High School; **Nia Damgova, Connor Slattery**, St. Charles East High School; **Jeremy Leal, Tristan Einstein**, St. Charles North High School; **Jenna Sgarlata, Lisa Mordell**, St. Francis High School; **Julianna Dantzer, Calvin Chu**, Waubonsie Valley High School; **Stephanie Cheng, Miranda Gollwitzer**, West Aurora High School; **Nick Heise, Soren Johnson**, Wheaton Academy; **Kevin Stoffel, Leah Wank**, Wheaton North High School; **Steve Kerby, Isaac Harris**, Wheaton Warrenville South High School; **Martin McDonough, Amy Byrnes**, York Community High School.

THE YEAR AT A GLANCE: CELEBRATING SUCCESS THROUGH THE SEASONS

WINTER

- FFSE "Members Only" tour to MINOS (Main Injector Neutrino Oscillation Search) facility on December 5 (See mini-story.)
- Planning began for FFSE-supported spring and summer programs. Education Office docents and staff often plan and prepare a year in advance.
- 11th Annual Fermilab Family Open House on February 8 (See mini-story.)

SPRING

- The FFSE board selected recipients for teacher workshop, Science Adventure and field trip transportation scholarships. Nine scholarships were awarded.
- STEM Career Expo on April 22 (See mini-story.)
- FFSE Annual Meeting on May 19
- Fermilab High School Science Awards were presented to promising scholars in Kane and DuPage Counties. See list of recipients on page 10.

SUMMER

- Fermilab Outdoor Family Fair on June 14
- FFSE board members met participants and supplied snacks during summer teacher workshops to raise awareness of the organization.

FALL

- FFSE van took scientists and physics equipment to schools for classroom presentations.
- FFSE Program Scholarship applications opened on November 1. (See mini-story.)
- Volunteer Reception and Director's Award on November 18 (See mini-story.)
- Regular board meeting on November 17

FFSE SUPPORTS EDUCATION PROGRAMS AND OUTREACH EFFORTS DIRECTLY AND IN COLLABORATION WITH OTHERS THROUGHOUT THE YEAR.

PHYSICS AND PRAIRIE FIELD TRIPS

1,757 middle school students from 32 schools participated in the physics field trips: Beauty and Charm and Phriendly Physics.

3,930 students came to study Fermilab's prairie:

- 3,268 students from 25 schools for Particles and Prairies (middle level)
- 392 students from 7 schools for Prairie - Our Heartland (late elementary)
- 206 students from 5 schools for Insects at Work in Our World, our newest program

SUMMER TEACHER PROGRAMS

High school level courses included:

- Crosscutting Concepts in Chemistry: 13 participants;
- Waves, Sound and Optics: 7 participants;
- Biology: 3 participants;
- Modeling Workshops: 87 participants.

Middle level courses included:

- Beauty and Charm: 6 teachers;
- Particles and Prairies: 7 teachers.

Elementary educators benefited from:

- Prairie - Our Heartland: 7 teachers;
- Insects at Work in our World: 2 teachers;
- Phriendly Physics: 3 teachers.

OTHER OUTREACH

- Get to Know Fermilab: 1,455
- Get to know the LSC: 95
- Ask-a-Scientist: 831

SCIENCE ADVENTURES

478 children participated in 45 different adventures including: Flutter Like a Butterfly; Chemistry at Your Fingertips; Snow Crystals; Fireflies, Sea Monsters and Glow Sticks; Making Waves with Medical Imaging; Survival Science; Nanotech Investigations; The Bugs are Back; Friction Unleashed; Lego Engineering; and the Prairie Ranger program.

CLASSROOM PRESENTATIONS

25,575 students enjoyed 148 presentations including:

- Charge! Electricity and Magnetism;
- Space, Time and Einstein;
- Forces and Motion;
- Space, Time and the Universe;
- Light and Color;
- Physics of Sports;
- Importance of Science;
- Physics in the Real World.

An FFSE-funded van provided transportation to area schools for the scientists and their materials. (Meet some of the scientist volunteers on page 7 of this report.)

SCOUTS

1,226 scouts from 73 troops participated in badge programs.

PERSONNEL

THE SUCCESS OF THE 2015 FFSE EDUCATION PROGRAMS RESTS WITH THESE OUTSTANDING PROGRAM LEADERS.

Kristin Appiah-Word, Lawndale Academy, Chicago • **Michael Bachrodt**, Fremd High School, Palatine • **Lauren Birth**, St. Peter Catholic School, Aurora • **James Browne**, Amboy High School • **SueZ Bruno**, Gates Elementary School, Aurora • **Jill Burke**, Franklin Park School District 84 • **Janet Chaterji**, Early Childhood Educator • **Trudi Coutts**, Naperville Community Unit School District 203 • **James D. Cox**, teacher, retired • **Karl Craddock**, Fremd High School, Palatine • **Larry Cwik**, Seton Academy, South Holland • **Jason English**, Fremd High School, Palatine • **Todd Ernst**, Valley View School District 365U • **Michelle Fabian**, Batavia High School • **Patricia M. Franzen**, Wild Enterprises, Metamora • **Barbara Greenberg**, teacher, retired • **Bill Grosser**, Oak Park and River Forest High School • **Mary Ann Janiak**, teacher, retired • **Cindy Warren-James**, teacher, retired • **Randy Jones**, Glen Ellyn School District 41 • **Elizabeth Karnik**, Western Springs School District 101 • **Steve Keefe**, teacher, retired • **Nicole Kitzmiller**, Rotolo Middle School, Batavia • **Tom Knutson**, teacher, retired • **Ellen Kohlmeir**, biomedical scientist • **Robert Lewis**, Downers Grove North High School • **Paul Madsen**, Rosary High School, Aurora • **Lee R. Marek**, University of Illinois, Chicago • **Amy Miller**, Johnson Elementary School, Warrenville • **Maureen Mitchell**, Geneva High School • **Stefany Montgomery**, Larkin High School, Elgin • **Jill Mueller**, West Chicago Middle School • **Radomir Niewrzol**, Glenbard North High School, Carol Stream • **Mary Sue Offut**, SciTech and Field Museum volunteer • **Glenda Peck**, Alice Gustafson Elementary School, Batavia • **Alexandra Rosborough**, Geneva High School • **Chris Ruffolo**, Neuqua Valley High School • **Susan Sanders**, Glenbard School District 87, Glen Ellyn • **Katherine Seguino**, Naperville Central High School • **Larry Spires**, Metea Valley High School, Aurora • **Marsha Stierwalt**, Alice Gustafson Elementary School, Batavia • **Patrick Swanson**, Hoffman Estates High School • **Becky VanDyke**, Glen Ellyn School District 41 • **Phillip VanDyke**, Aurora University • **Karen Weigt**, Kaneland John Stewart Elementary School, Elburn • **Wayne R. Wittenberg**, Benjamin Franklin School, Glen Ellyn

MANY FERMILAB SCIENTISTS GIVE THEIR TIME GENEROUSLY TO EDUCATION PROGRAMS THROUGHOUT THE YEAR.

Corey Adams • Mark Adams • Michael Albrow • Gerard Altayo • Wayne Baisley • Maurice Ball • Dennis Barak • Leo Bellantoni • Jamie Blowers • Gino Bolla • Mark Bollinger • Rodger Bossert • Dan Brommelsiek • Chuck Brown • Ryan Campbell • Kermit Carlson • Tom Carter • Brendan Casey • Alex Chen • Guram Chlachidze • Dave Christian • Penelope Constanta • Lance Cooley • Tom Croc • Andrew Dalesandro • Fritz DeJongh • Roger Dixon • Brian Drendel • Chip Edstrom • Juan Estrada • Martin Frank Patrick Fox • Bill Freeman • Lynn Garren • Sandra Geib-Ingram • Lisa Giacchetti • George Ginther • Doug Glenzinski • Sowjanya Gollapinni • Stefan Gruenendahl • Dee Hahn • Steve Hahn • Sten Hansen • David Harding • Elvin Harms • Anne Heavey • Marie Herman • Michael Herr • Samantha Kaushalya Hewamanage • Jim Hirschauer • Julie Hogan • Sergo Jindariani • Cindy Joe • David Johnson • Todd Johnson • Clementine Jones • Soon Yung Jun • Jim Kalina • Brendan Kiburg • Young-Kee Kim • Bonnie King • Terry Kiper • Mike Kirby • Donna Kubik • Arthur Lee • Bill Lee • Jerry Liebfritz • Don Lincoln • Sarah Lockwitz • Marco Mambelli • Margaret Marks • Chris Marshall • Carrie McGivern • Petra Merkel • Don Mitchell • Denton Morris • Matthew Muetther • Duane Newhart • Dennis Nicklaus • Tom Nicol • Brian Nord • Chris Olsen • Jesus Orduna • Chong Shik Park • Anna Pla-Dalmau • Ruth Pordes • Sam Posen • Chris Quigg • Jen Raaf • Erik Ramberg • Paul Reimer • Kurt Riesselmann • Rob Roser • Josh Rubin • Jason St. John • Jamie Santucci • Niki Saoulidou • Peter Shanahan • Aria Soha • Chris Stoughton • Gary Tefoe • Marcia Techenbrock • Linda Valerio • Rod Walton • Marc Weinbert • Mike Weiss • Jeremy Werner • Will Wester • Chris White • Herman White • Meiqin Xiao • Jim Zagel • Sam Zeller • Jerry K. Zimmerman • Bob Zwaska

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REVENUES AND EXPENSES

	2014 (audited)	2013 (audited)
Revenue/Contributions (\$000)		
Contributions/Foundations	\$ 48.5	\$ 25.2
Membership	15.1	20.3
Other	4.6	8.3
Total Revenue/Contributions	\$ 68.2	\$ 53.8
Expenses		
Program Services	\$ 61.1	\$ 39.8
Administrative Overhead	18.6	12.4
Total Expenses	\$ 79.7	\$ 52.2
Change in Net Assets	\$ (11.5)	\$ 1.6
End of Year	\$ 120.9	\$ 143.9

ACKNOWLEDGMENTS

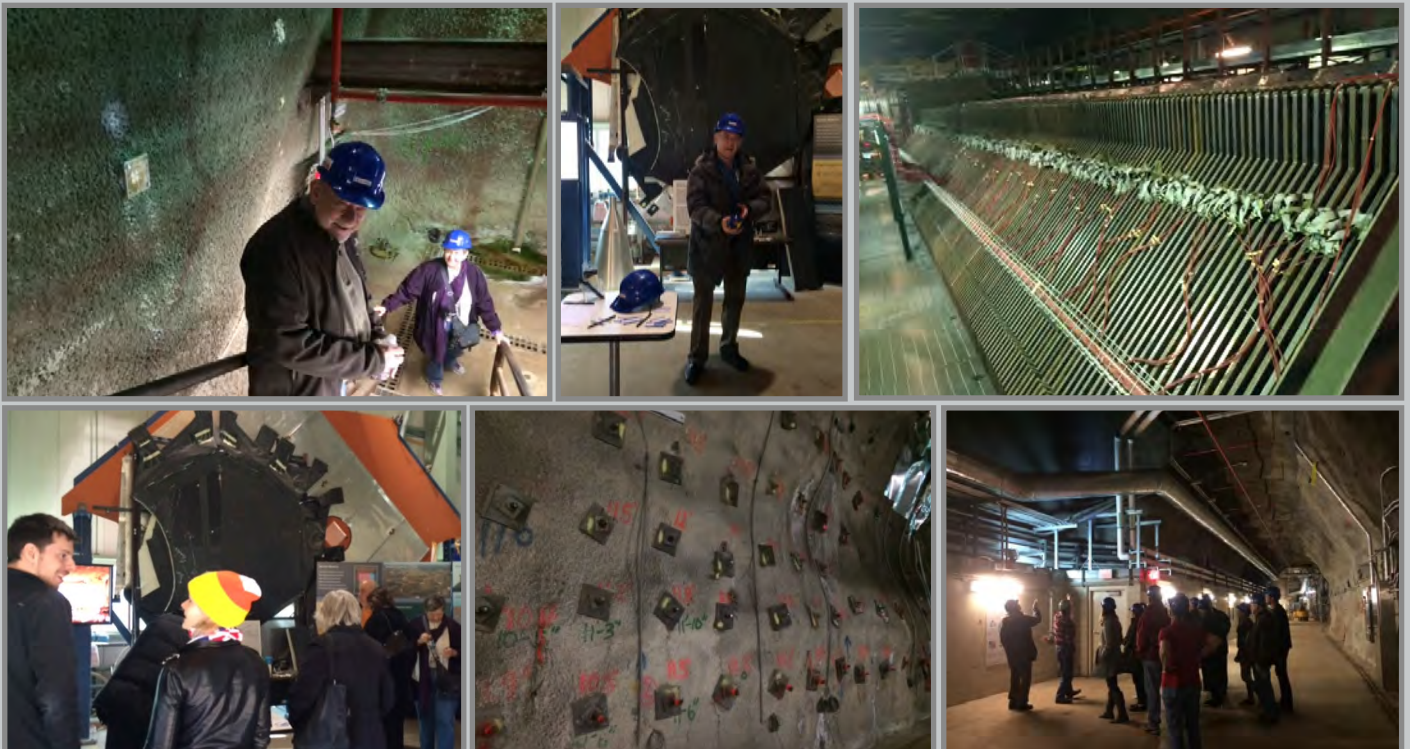
Fermilab Friends for Science Education depends entirely on contributions and grants. We thank Fermilab Friends for Science Education members, Tree of Knowledge contributors, and the following organizations for their generous support of Fermilab education programs:

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Valley Education for Employment System

MEMBERS ONLY TOUR

The Mysterious Neutrino!

Fermilab's role as host to world-leading neutrino experiments was the topic of the "Members Only" Tour, held on Saturday, December 5. About 30 FFSE members and guests toured the underground MINOS (Main Injector Neutrino Oscillation Search) facility. Although very abundant, the neutrino is a mysterious particle. Chris Marshall, aka MC Truth and a postdoc from the University of Rochester, shared background on neutrinos and described several experiments currently studying these elusive particles.



Members' tours are offered yearly and focus upon not only the work at Fermilab, but also the global community that strives to build upon a relevant and fascinating knowledge base.

