

Education and Public Outreach Subcommittee

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October 4th, 2019

Introduction to the Education and Public Outreach Sub-committee

- ▶ **Goal is to broaden the scope of outreach activities at Fermilab**
- ▶ **Synergistic with existing programs**
- ▶ **Traditionally there has been an emphasis on science communication**
- ▶ **We work with the Office of Communication closely**
- ▶ **There exists a clear mandate to provide support during the:**
 - ▶ **DC Trip**
 - ▶ **Users Meeting**
- ▶ **In the following slides, I have summarized our activities in 2018-2019**

In preparation for the DC Trip

- ▶ We held three training sessions between Feb 18th - March 13th, 2019
 - ▶ <https://indico.fnal.gov/event/19884/>
 - ▶ <https://indico.fnal.gov/event/20134/>
 - ▶ <https://indico.fnal.gov/event/20157/>

- ▶ We organized a science communication training

13:10 - 14:10

Effective methods of science communication *1h0'*

Speaker: Andre Salles (Fermilab Office of Communication)

Material:

Slides



Education and public outreach at the Users Meeting

- ▶ Science communication training conducted by Andre Salles
- ▶ Tied to the theme of the Users Meeting “Your Community, Your Science”
- ▶ David Martinez was in charge
- ▶ Total number of attendees limited to 30
- ▶ Slots occupied within 30 min!

09:00 - 10:15

Session V: Science Communication

Convener: David Martinez

Location: WH2SW, Curia II

09:00 **How to talk science to everyone** 1h15'

Speaker: Andre Salles (Fermilab Office of Communication)

Education and public outreach at the Users Meeting



- ▶ Attendees in various stages of their career
- ▶ Early career scientists participated
- ▶ We sent out a google form to gauge interest in signing up for outreach activities

Volunteer signup at the Users Meeting

QUESTIONS

RESPONSES

5

Volunteer signup

Are you interested in outreach activities? Yes? Don't know how to get involved? Please sign up here!

Your name *

Short answer text

What kind of outreach activities are you interested in? *

Short answer text

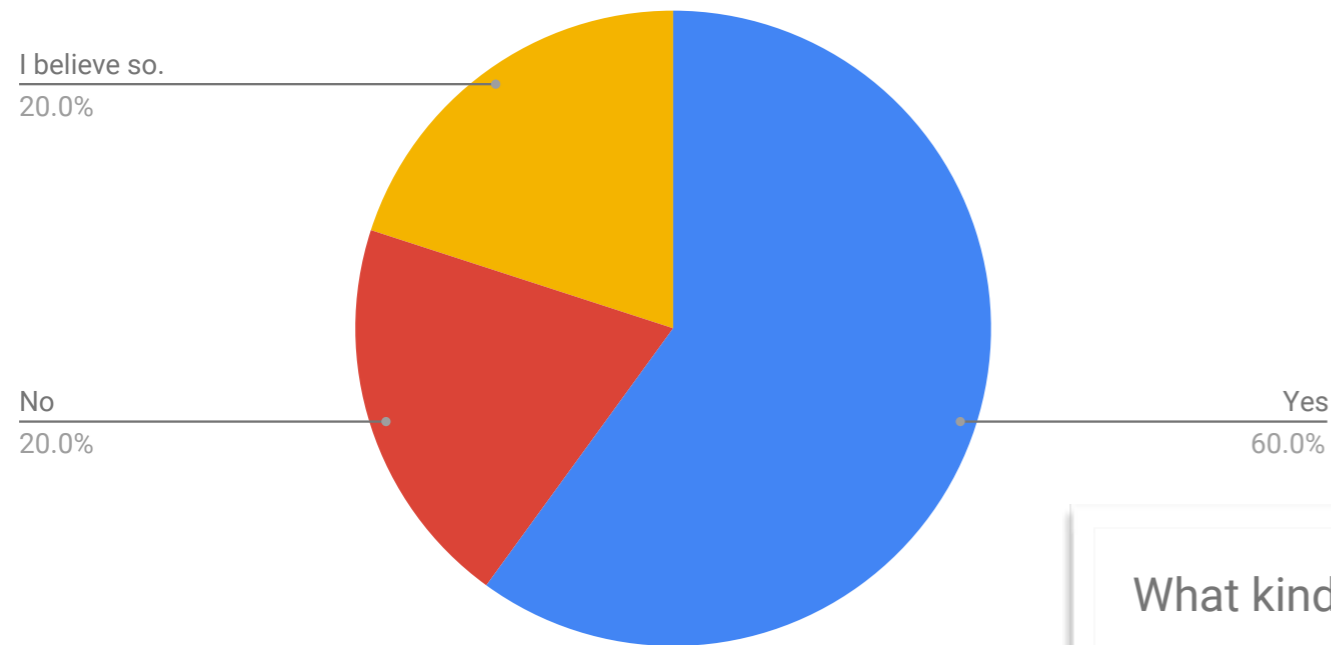
How long will you be at Fermilab? *

Short answer text



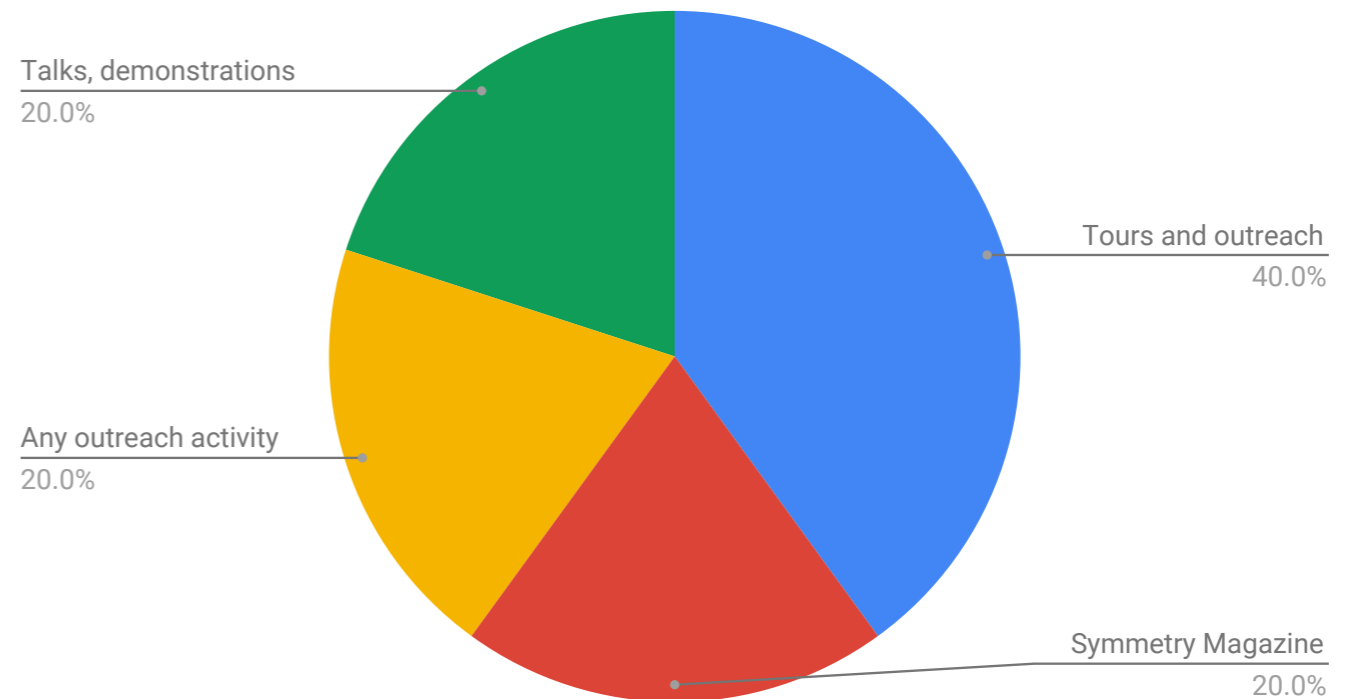
Volunteer signup at the Users Meeting

If you have to undergo some form of training to conduct tours, would you be available to do so?



- **Willingness to undergo any kind of training**

What kind of outreach activities are you interested in?



- **Kinds of activities prospective volunteers are interested in contributing**

Next steps...

- ▶ **Contribute to the “Ask-a-scientist” effort (we have received emails in the past)**
- ▶ **Various ways to contribute (docents, speakers etc.)**

Topic & Link	Date	Presenter & Institution
The Fermilab Holometer: Is the Universe a Hologram?	July 7, 2019	Ohkyung Kwon, University of Chicago
How to Build a Neutrino Beam	June 2, 2019	Bob Zwaska, Fermilab
Hands-on Quantum Computing	April 7, 2019	Daniel Bowring, Fermilab
Famous Women Astronomers and Physicists	March 3, 2019	prepared by Mike Albrow, touched-up and presented by Peter H. Garbincius, both Fermilab
From Playstation to Supercomputer: Accelerating Physics with GPUs	January 6, 2019	Wes Gohn, University of Kentucky
Neutrino Oscillations	December 2, 2018	Peter H. Garbincius, Fermilab
Dark Matter - Why does it Matter? video (open in a new frame) or here is URL: https://www.youtube.com/watch?v=o79szJBtQ5E&feature=youtu.be	October 7, 2018	Dan Bauer, Fermilab
A Theory of (almost) Everything - The Standard Model of Particle Physics	September 9, 2018	Bogdan Dobrescu, Fermilab

- ▶ **How can we help with the replacement of the Foucault pendulum in the atrium: cloud chamber? It is feasible?**
- ▶ **We need to get in touch with Rebecca Thompson. Matt Bellis from Siena College (https://www.youtube.com/watch?v=-XgsCH_SH9Q) made a cloud chamber that relies on Peltier cooling, might be an option because it replaces the need to cool the unit using dry ice.**

What we couldn't do last year...

- ▶ **Making 2 outreach videos with Don Lincoln:**
 - ▶ **How to give a great talk (include Don's link)**
 - ▶ **How to make a great poster (<https://www.npr.org/sections/health-shots/2019/06/11/729314248/to-save-the-science-poster-researchers-want-to-kill-it-and-start-over>)**
- ▶ **These videos will be geared toward the Users Meeting talks and poster**
- ▶ **Don is interested in this idea**
- ▶ **Cindy Joe had mentioned the possibility of inviting a speaker from the College of Dupage to give a talk on effective methods of communication**