



Superheroes in STEM 2021

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May 1, 2021

Welcome

At Fermilab, we bring the world's experts together to solve the mysteries of matter, energy, space and time. Now you can join them online.

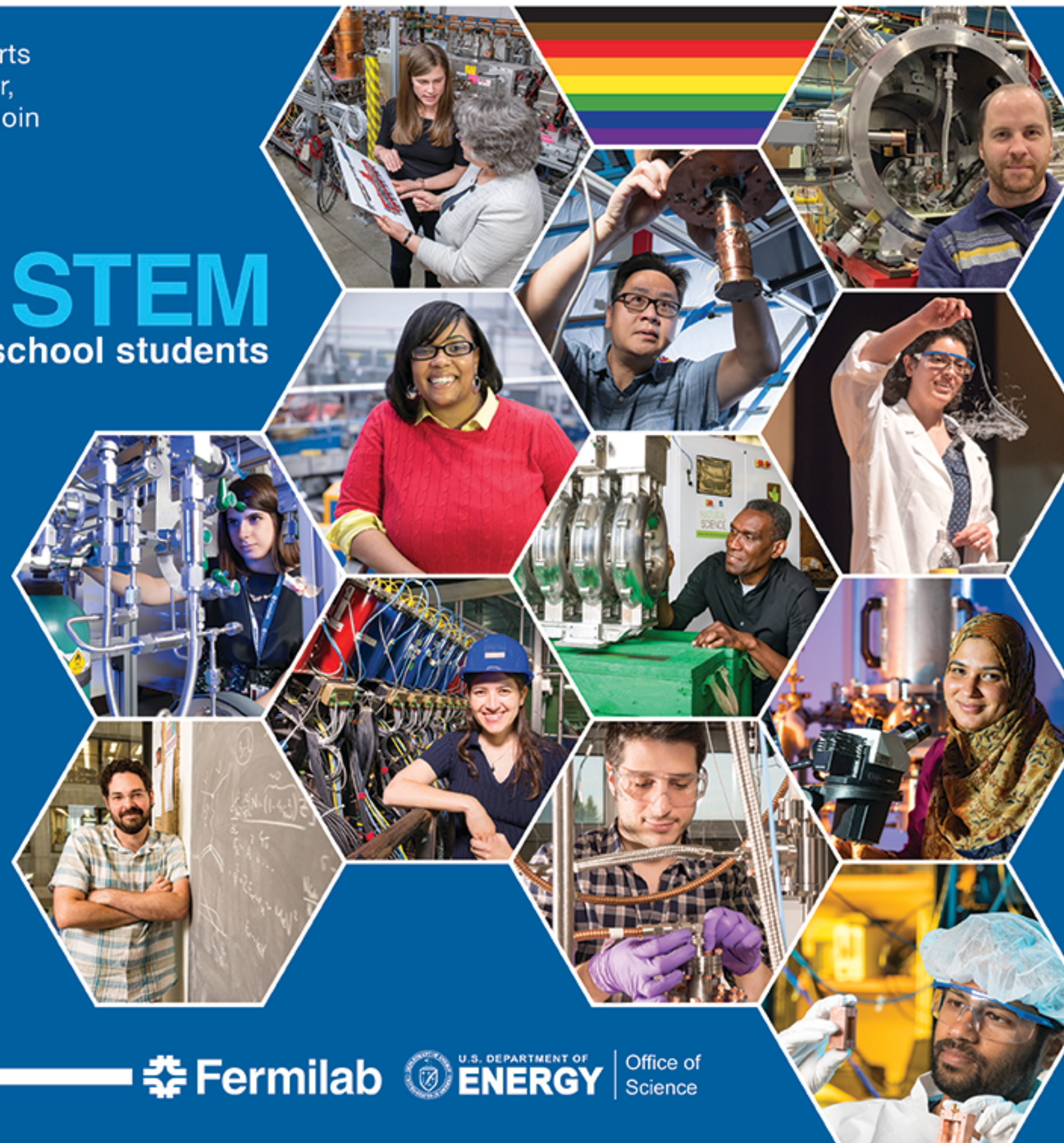
Superheroes in STEM

Online conference for high school students

Experts at Fermilab will answer your questions and explain everything that you want to know about their work and a career in STEM.

Saturday, May 1, 2021
10 am–noon US Central Time
Register by April 24 at
www.fnal.gov/superheroes

Panel discussions
Electrical engineering
Mechanical engineering
Quantum computing
Dark matter searches
Neutrino physics
Large Hadron Collider
and more...



Fermilab

Fermilab was founded in 1967 by Robert Wilson

One of the 17 national laboratory from the department of energy

Specialize in high energy physics

Leader in accelerator and detector technology

International center for particle physics research and discoveries

Home of the world's most powerful neutrino beam

Building for discovery

- Pursue the physics associated with neutrinos
- Identify the new physics of dark matter
- Quantum Computing
- Explore the unknown: new particles, interactions and physical principles



Program

First part (plenary)

10:00 - 10:05 am: Welcome the participants. Some basic Zoom rules.

10:05 - 10:30 am: Keynote speech 1: Tammy (20+5)

10:30 - 10:55 am: Keynote speech 2: Juan (20+5)

10:55 - 11:00 am: General photo

Second part (parallel sessions)

11:00 - 11:30 am: Panel (presentation slides)

11:10 - 11:52 am: Questions and answers.

Closure (plenary)

11:52 - 12:00 pm: Closure and general information.

Parallel Sessions

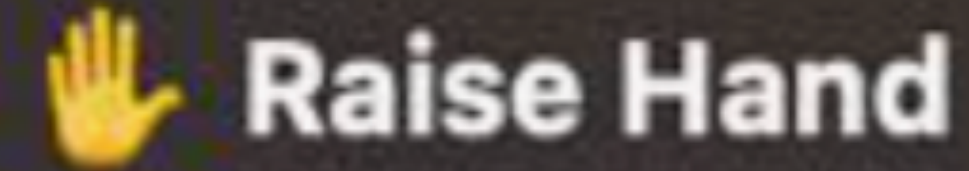
- **Science Chat** (1 hour): Zoom breakout rooms
 - Chat about specific topics with 2-3 scientists and engineers
 - Topics are:

- Mechanical engineering
- Electrical engineering
- Physics theory
- Quantum computing

- Astrophysics
- Dark Matter searches
- Experimental neutrino physics
- Large Hadron Collider

Default Guidelines

- ▶ *Raising hand and unmuting: okey, but we have to unmute you*
- ▶ *Typing questions in the chat: always okay, but your question may not be answered if the question is too high*
- ▶ *Please use the “raise hand” feature and the moderators will try to recognize people in order*



This meeting is being recorded, videos will be posted at Indico

Keynote Speakers

Tammy Walton



Juan Estrada

