



THE INSTITUTE
FOR UNDERGROUND SCIENCE
AT SURF

CETUP* 2026



CELEBRATING
CETUP*

Center for Theoretical
Underground Physics
and Related Areas

OF COLLABORATIVE RESEARCH



Introductions

- Staff
- Organizing Committee
- Workshop Attendees



Celebrating 10 Years of CETUP*

- Share Milestones
- Time Capsule
- Timeline Graphic
- Your Stories
- Next 10 Years



Celebrating 10 Years of CETUP*



For the **Time Capsule**, consider contributing items such as:

- Photos from past or current CETUP* workshops
- Copies of publications or journal articles connected to CETUP* collaborations
- Workshop schedules, agendas, name badges, or group photos
- News articles featuring CETUP* or related scientific discoveries
- A short letter to future CETUP* participants describing your hopes for the field
- A commemorative item from this year's workshop
- Small mementos that capture the spirit of CETUP*



Celebrating 10 Years of CETUP*



To contribute, please submit your memory on the
CETUP* **Indico website**.

We would love to hear about:

- A memorable moment or experience (photos or articles welcome)
- The people, collaborations, or environment that made it meaningful
- How it influenced your research, career, or perspective
- Any outcomes (publications, partnerships, new directions)
- The broader impact of your work connected to CETUP*



LZ dark matter experiment sets a world's best and spots neutrinos from the sun's core



[Download Image](#)

The LUX-ZEPLIN main detector in a surface lab before installation underground. (Photo: Matthew Kapust/Sanford Underground Research Facility)

The theoretical work developed at CETUP* has been integral in motivating and interpreting important and timely experiments. An example is the recent LZ detection of solar neutrinos via coherent scattering, which provides a novel window into neutrino physics and astrophysics. CETUP* is crucial to understanding the importance of such results, which represents the culmination of over 50 years of experimental effort.

Louis Strigari, Texas A&M

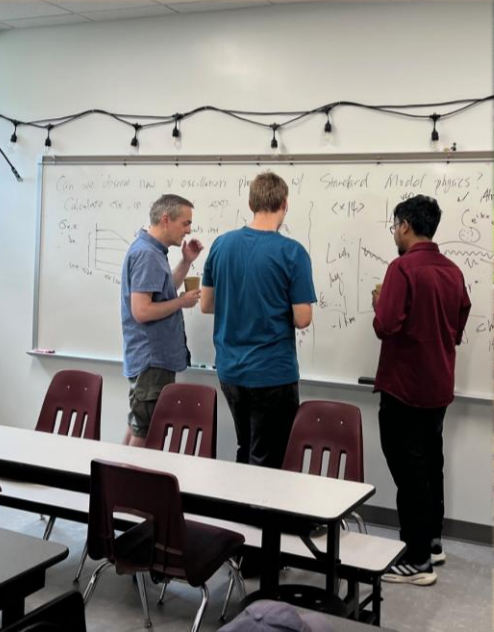




Trip to the SURF underground laboratory in 2023: A bunch of happy theorists finally seeing where the experiment they make predictions for is going to live.

Julie Gehrlein
Colorado State University







THE INSTITUTE

FOR UNDERGROUND SCIENCE
AT SURF

Our vision is to create a dynamic intersection of KNOWLEDGE, PEOPLE, and PLACE, dedicated to building an unparalleled intellectual community and serving as a world-leading center for underground science and technology.



Build Intellectual Community



Foster Interdisciplinary Collaboration



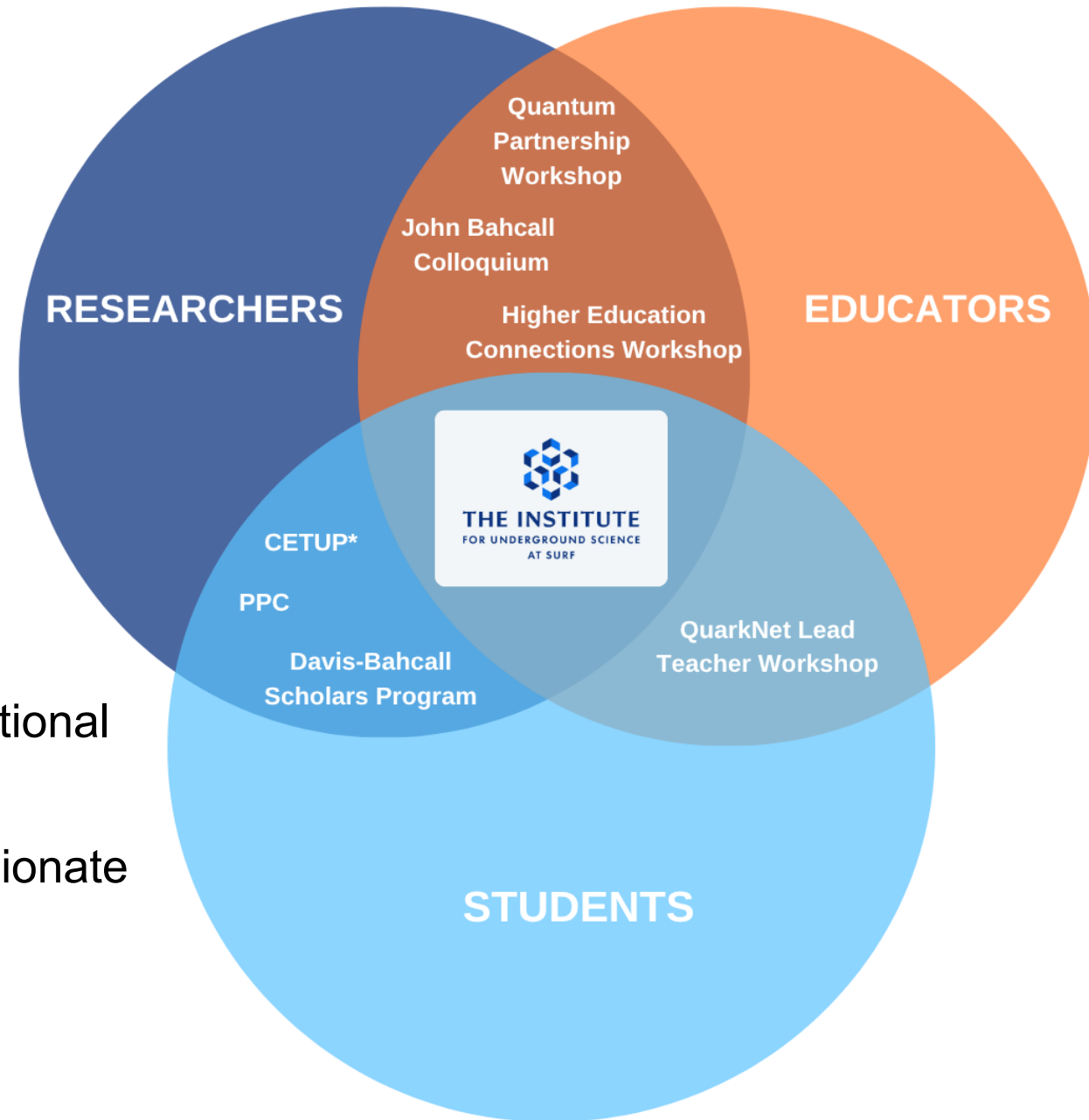
Construct a Path for Future Generations



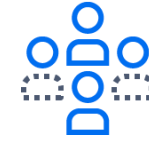
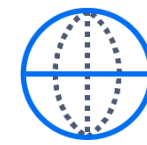
Expand Educational Opportunities



Establish Passionate Partnerships



Programmatic Impact & Global Intellectual Community



The Institute for Underground Science delivers immersive, high-impact programs that connect people, places, ideas, and disciplines. These programs advance research, strengthen collaboration, and build a global intellectual community.

Resources for Scientific Communities

Recorded Talks & Presentation Archive

Workshop Materials & Proceedings

Digital Scientific Resource Hub

Support for Early-Career Scientists

Mentorship

Career & Professional Development

Research Engagement

Connect Underground Science Communities

John Bahcall Colloquium

CETUP*

Quantum Partnership

Higher Ed Connections

Davis-Bahcall Scholars

Support for Development of Future Experiments

Scientific Planning

Research Collaboration

Strategic Partnerships



CETUP* Dark Matter: Week 1



Meals



**Catered
Lunch
Provided
Weekdays**



Transportation



**Carpool
and
Ride Share
or Taxi**



Communication



**Staff or
Organizing
Committee
Member**



Middle School



**8:00–5:00 p.m.
weekdays
(2 entrances)
+
Elevator**



CETUP* Dark Matter: Week 1



**Call for
Abstracts**



**Talk Spots
Available**



**Workshop
Announcements**



**Indico and
Slack**



**Community
Outreach**



**Sign up to
Volunteer**



**Dining
+
Tourism
and Other
Resources**



CETUP* Dark Matter: Week 1

Monday – Welcome!

Tuesday – Deep Talks (Crazy Horse Memorial’s Dr. Caleb Ziolkowski, Chief Mountain Officer) @ 5:00 p.m.

Wednesday – Lead Walking History Tour @ 6:00 p.m.

Thursday – Pub Talks & Trivia @ 5:30 p.m.

Friday – Student Day; CETUP* Social @ 4:30 p.m.

Saturday – Badlands National Park (talk and ask a scientist) @ 1:00 p.m.



Connect With Us.

www.Institute.surf

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CETUP*: 10 Year Milestones



Milestones



Milestones



Milestones



Milestones

