

# IDP Education and Public Outreach

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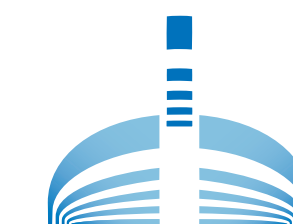
Louise T. Huffman

Director of Education and Public Outreach, US Ice Drilling Program

[louise.t.huffman@dartmouth.edu](mailto:louise.t.huffman@dartmouth.edu)







# IDP Education and Public Outreach Program

## 1. Professional Development for Educators— in collaboration with scientists



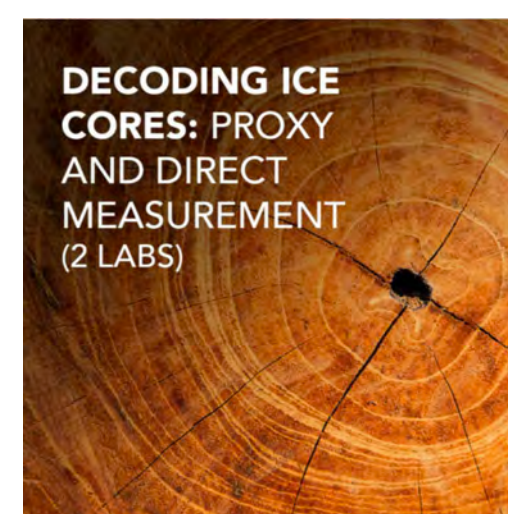
## 2. Public Outreach-to museums and community organizations



## 3. Development of Resources Based on Research Results

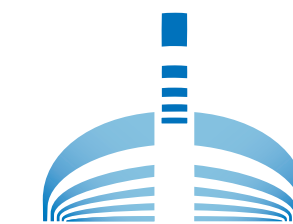


[icedrill-education.org](https://icedrill-education.org)



4. Scientist Broader Impacts  
<https://icedrill.org/outreach-support>  
[louise.t.huffman@dartmouth.edu](mailto:louise.t.huffman@dartmouth.edu)





# Broader Impacts

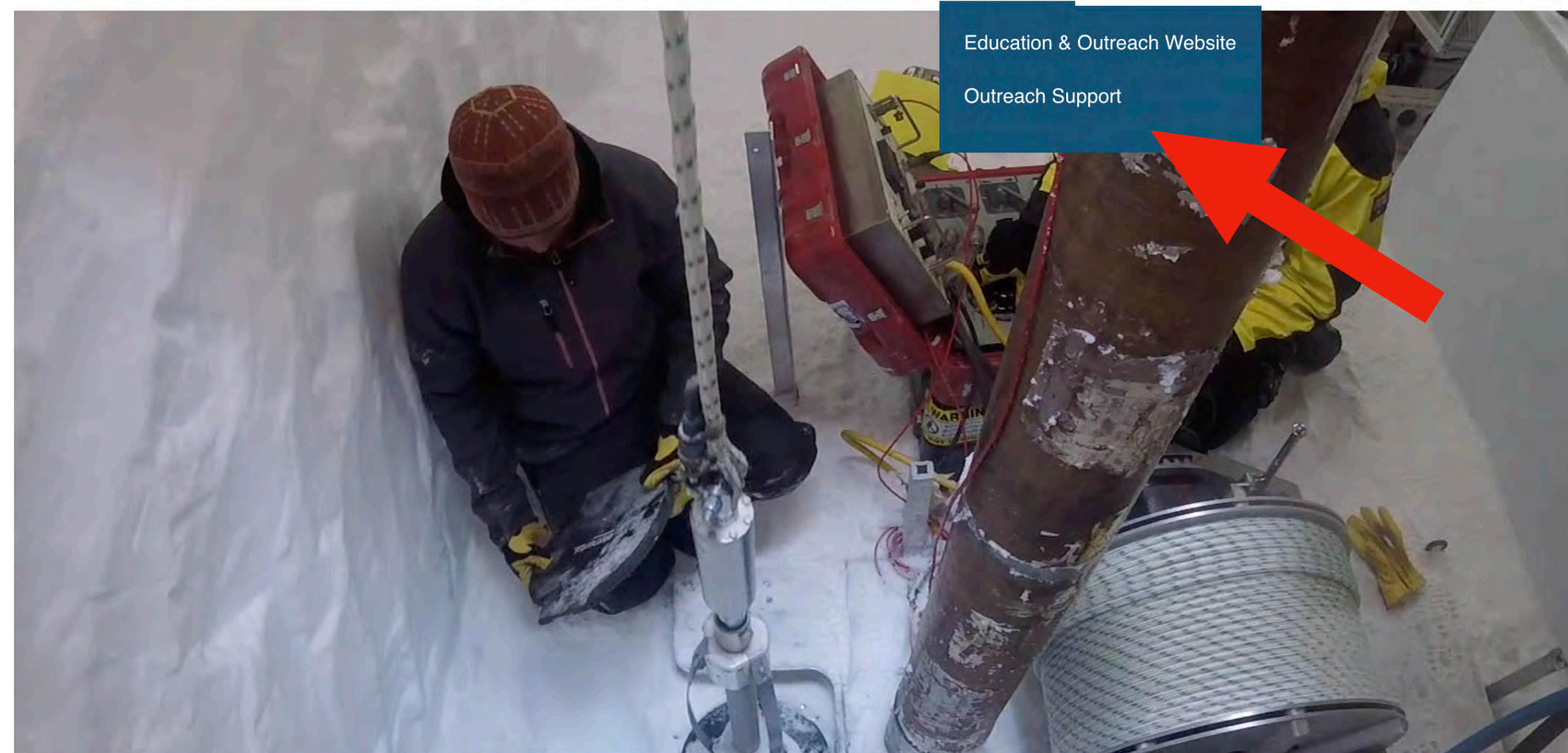
Step 1: [icedrill.org](http://icedrill.org)

Step 2: Contact Louise early in your proposal preparation

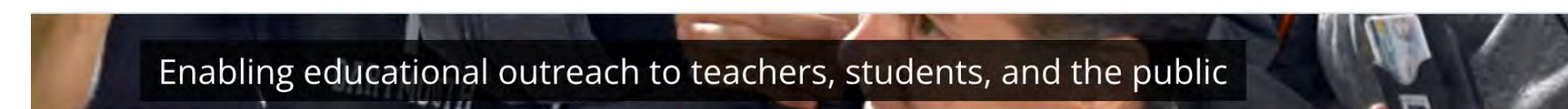


U.S. ICE DRILLING PROGRAM

About Equipment Fieldwork Resources News Library Publications Education Contact Us



## Discover IDP



Enabling educational outreach to teachers, students, and the public

[Home](#) / [Outreach Support](#)

## OUTREACH SUPPORT

The [Education and Outreach program of IDP](#) fosters diversity through its well-established [IDP School of Ice workshop](#) for faculty at minority-serving institutions and provides hands-on discovery activities based on ice science to middle-school and secondary school teachers. IDP outreach efforts advanced public literacy by humanizing the face of climate science by engaging community scientists in professional settings with educators through, for example, national conferences of the National Science Teacher Association.

Scientists who seek to include IDP education and outreach activities associated with U.S. ice coring or drilling science projects should contact Louise Huffman at [Louise.T.Huffman@Dartmouth.edu](mailto:Louise.T.Huffman@Dartmouth.edu) during their proposal preparation stage.

### Outreach Contact

#### Louise T. Huffman

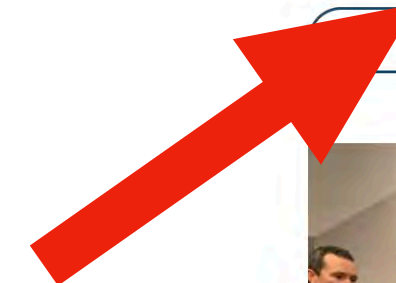
Director of Education & Public Outreach  
US Ice Drilling Program  
Thayer School of Engineering at Dartmouth  
14 Engineering Drive  
Hanover, NH 03755

Office: (630) 460-3688

Email: [Louise.T.Huffman@dartmouth.edu](mailto:Louise.T.Huffman@dartmouth.edu)

Website: <http://icedrill-education.org>

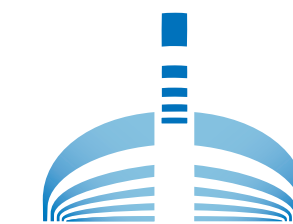
[IDP'S EDUCATION AND OUTREACH PROGRAM WEBSITE](#)



[icedrill.org](http://icedrill.org)

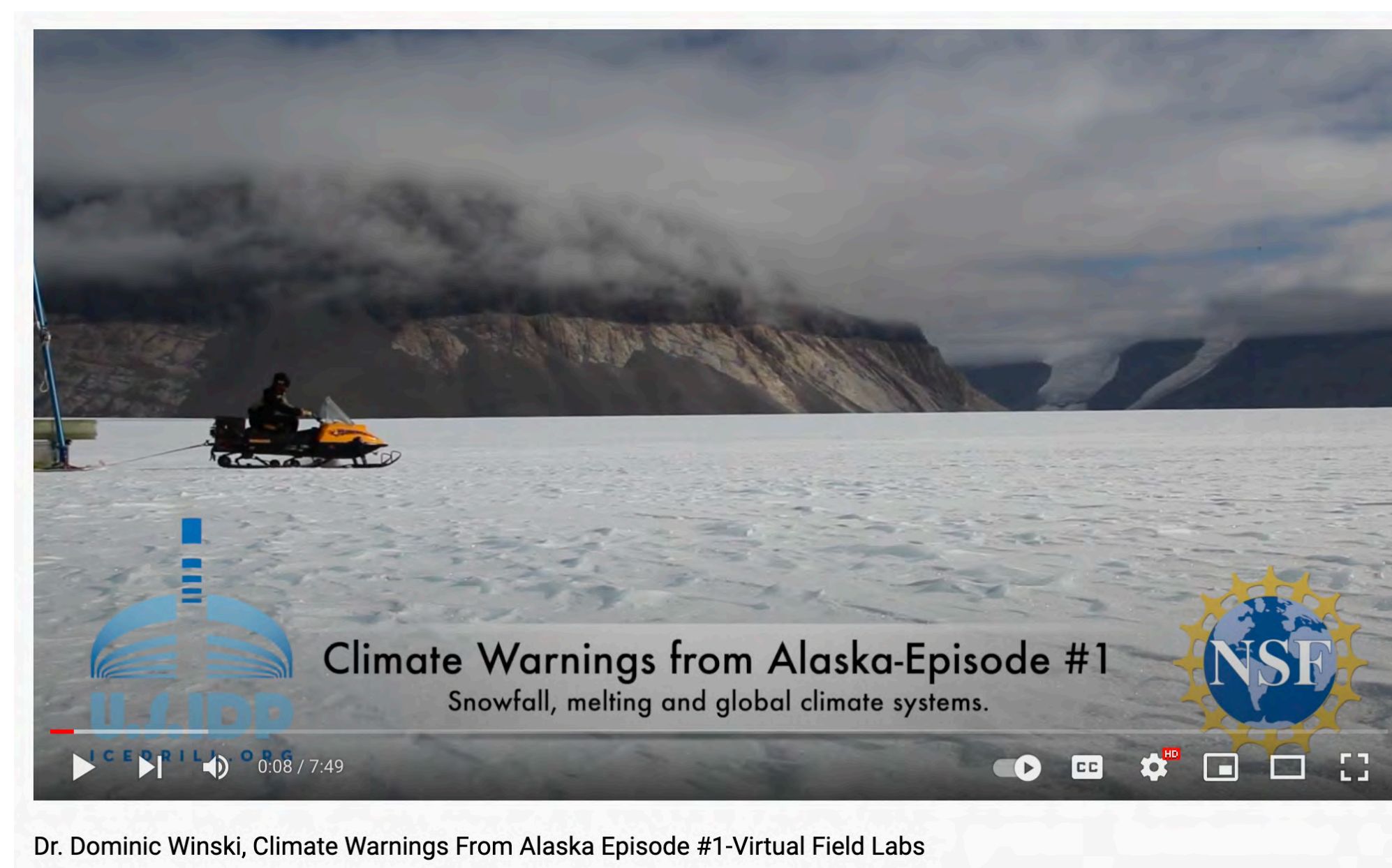
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# Virtual Field Labs

3-Part Video Series Exploring Climate Questions featuring a Researcher

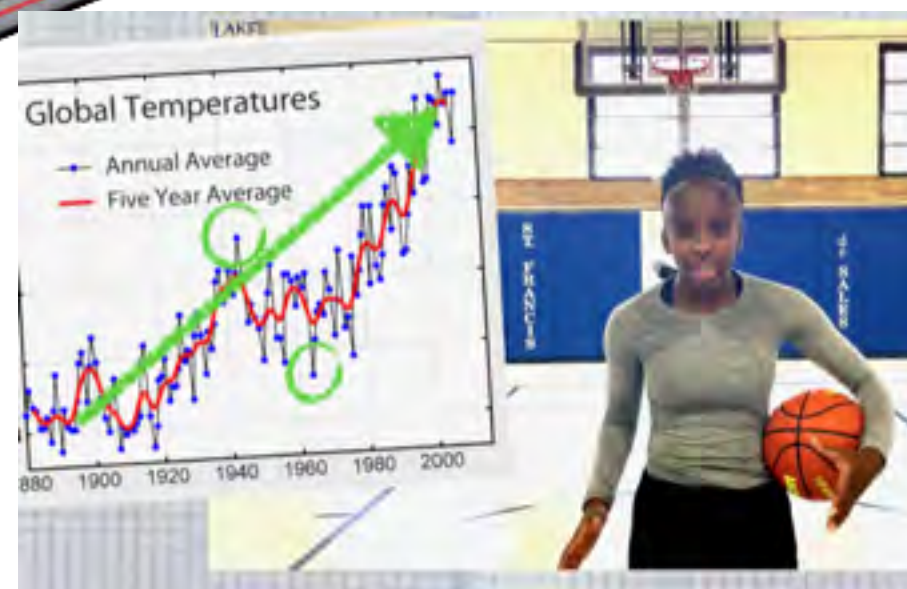


Dr. Dominic Winski, Climate Warnings From Alaska Episode #1-Virtual Field Labs





Ron Hale—teacher  
Chicago Public Schools



McKale Thompson-student  
Washington University  
Sustainable Building



Camille Moore  
Masters student  
Georgetown University  
Environmental Science

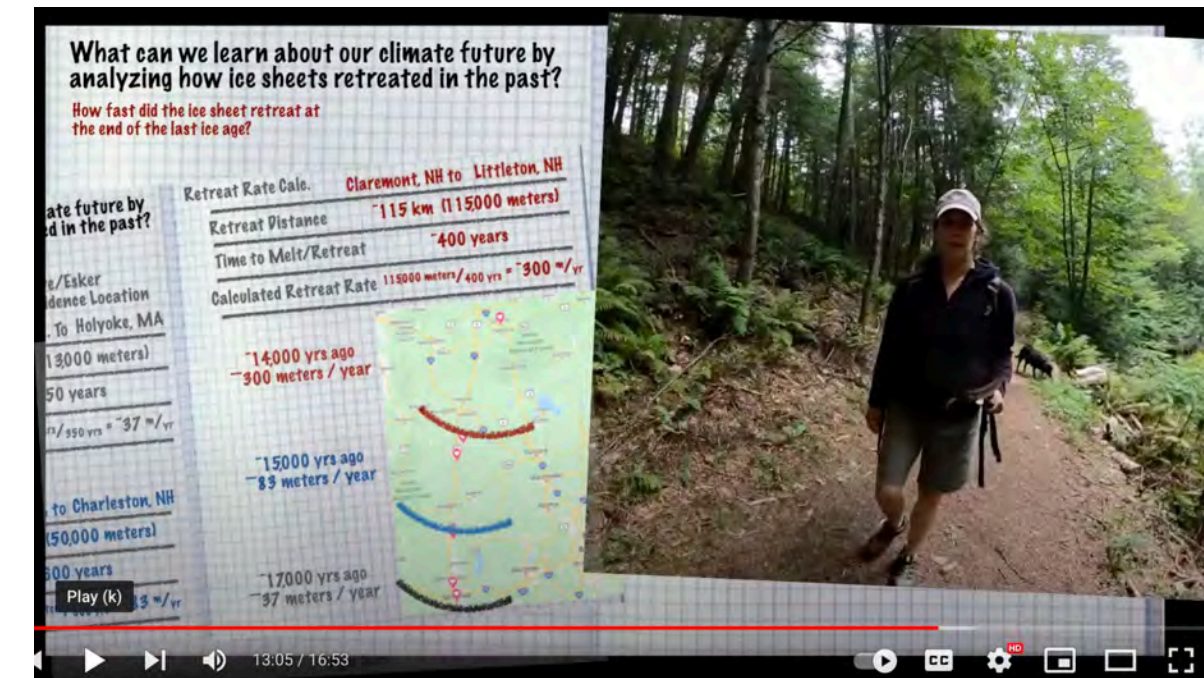


Leila Winn  
Student  
NY University

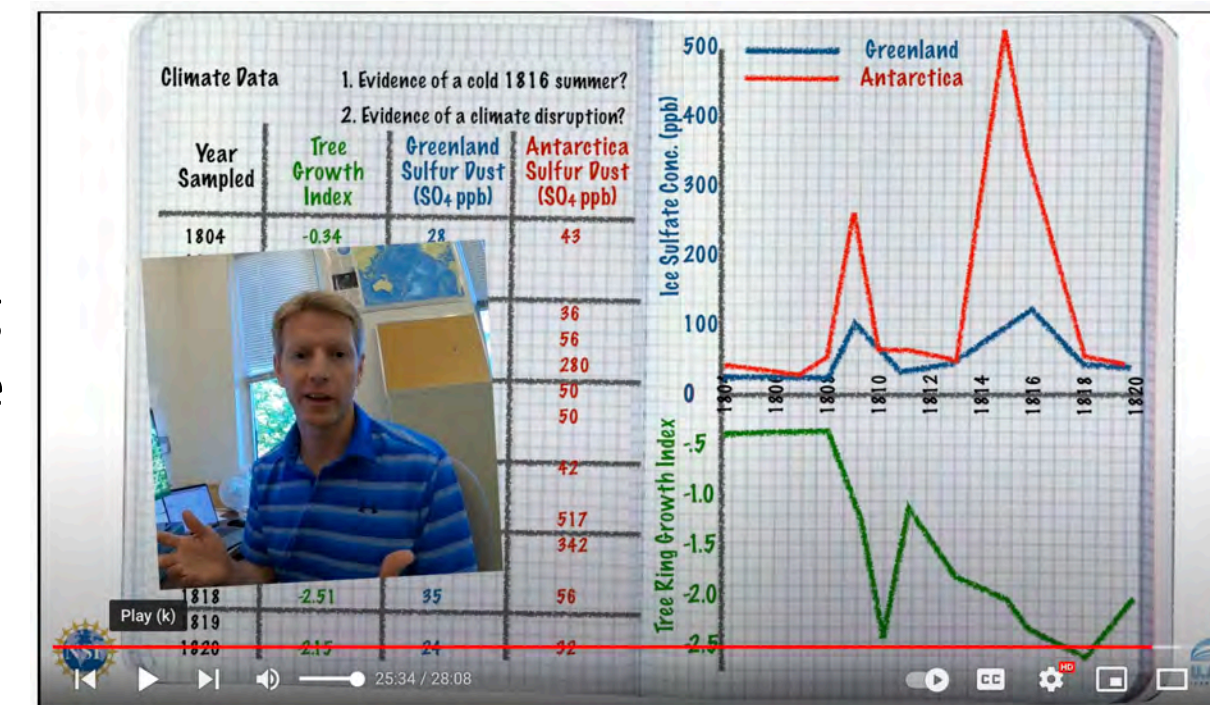


# Virtual Field Labs

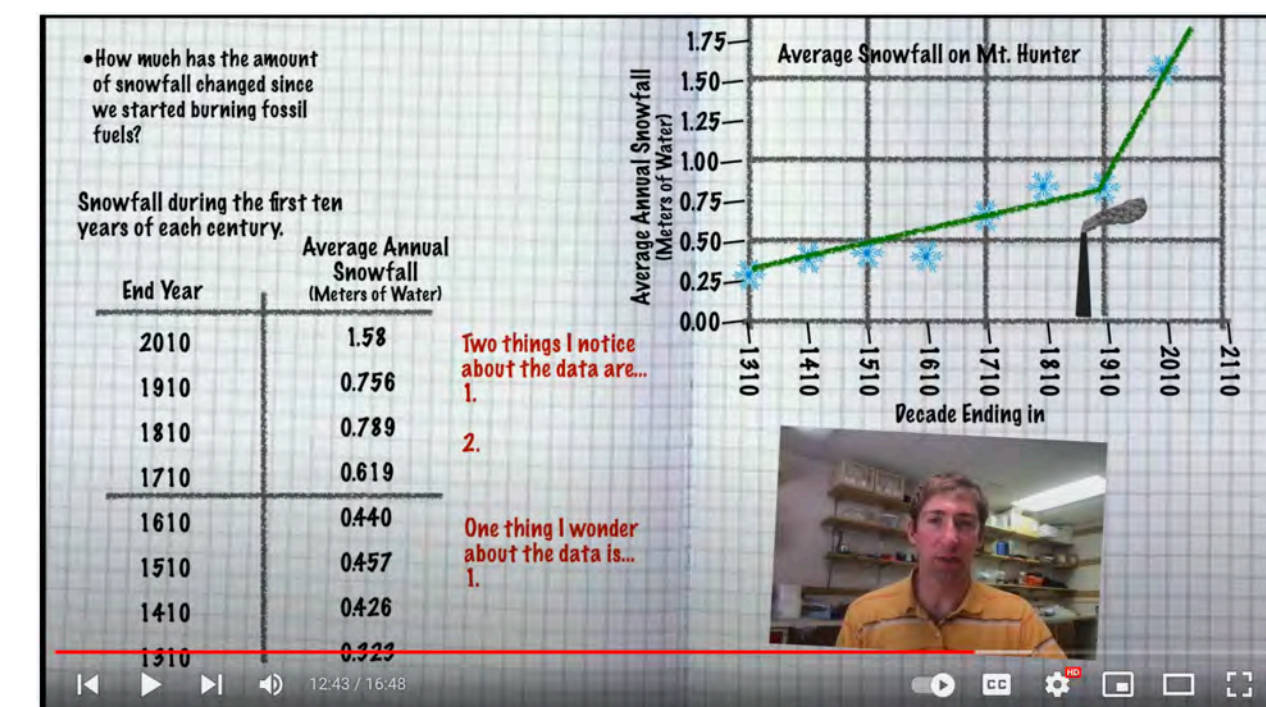
- Combines lab and field experiences
- Delivered digitally icedrill-education.org
- Middle school through college
- Independently or teacher-led
- Three-part series: 1. Intro/Question; 2. Data Collection/analysis; 3. (So what?) Relationship to future
- Led by scientists
- Diverse presenters
- Student engagement throughout



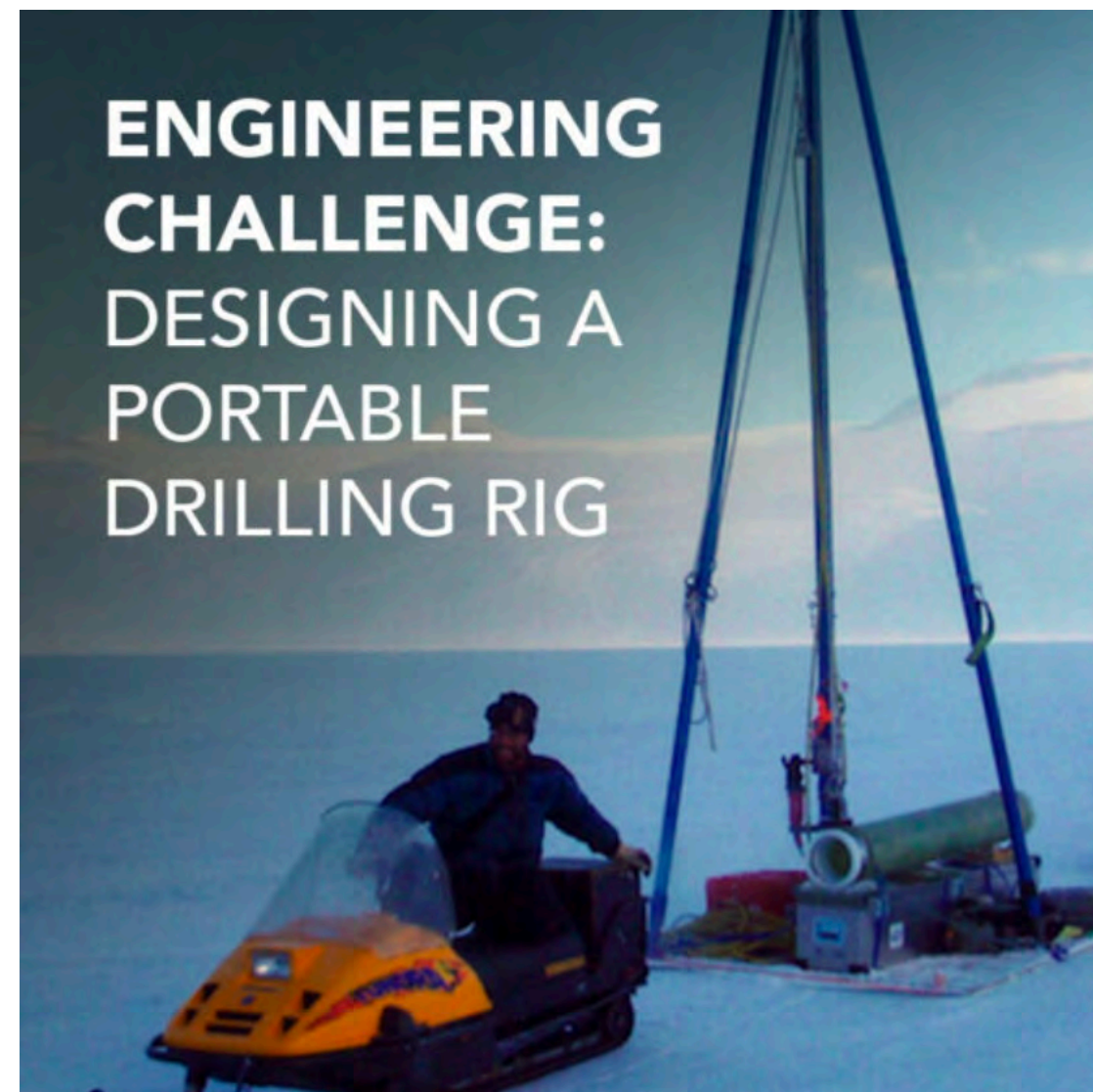
Dr. Erich Osterberg  
Dartmouth College



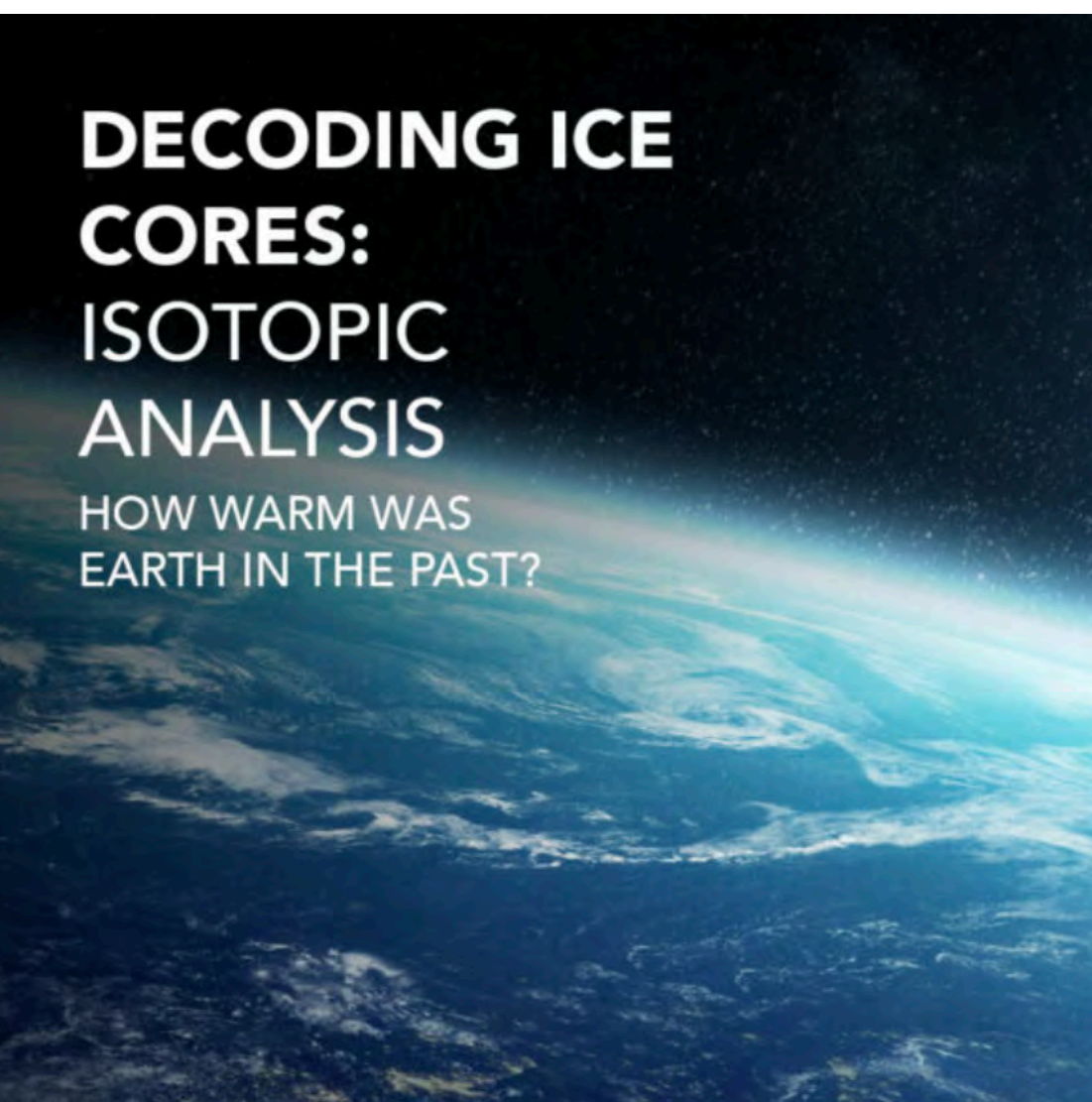
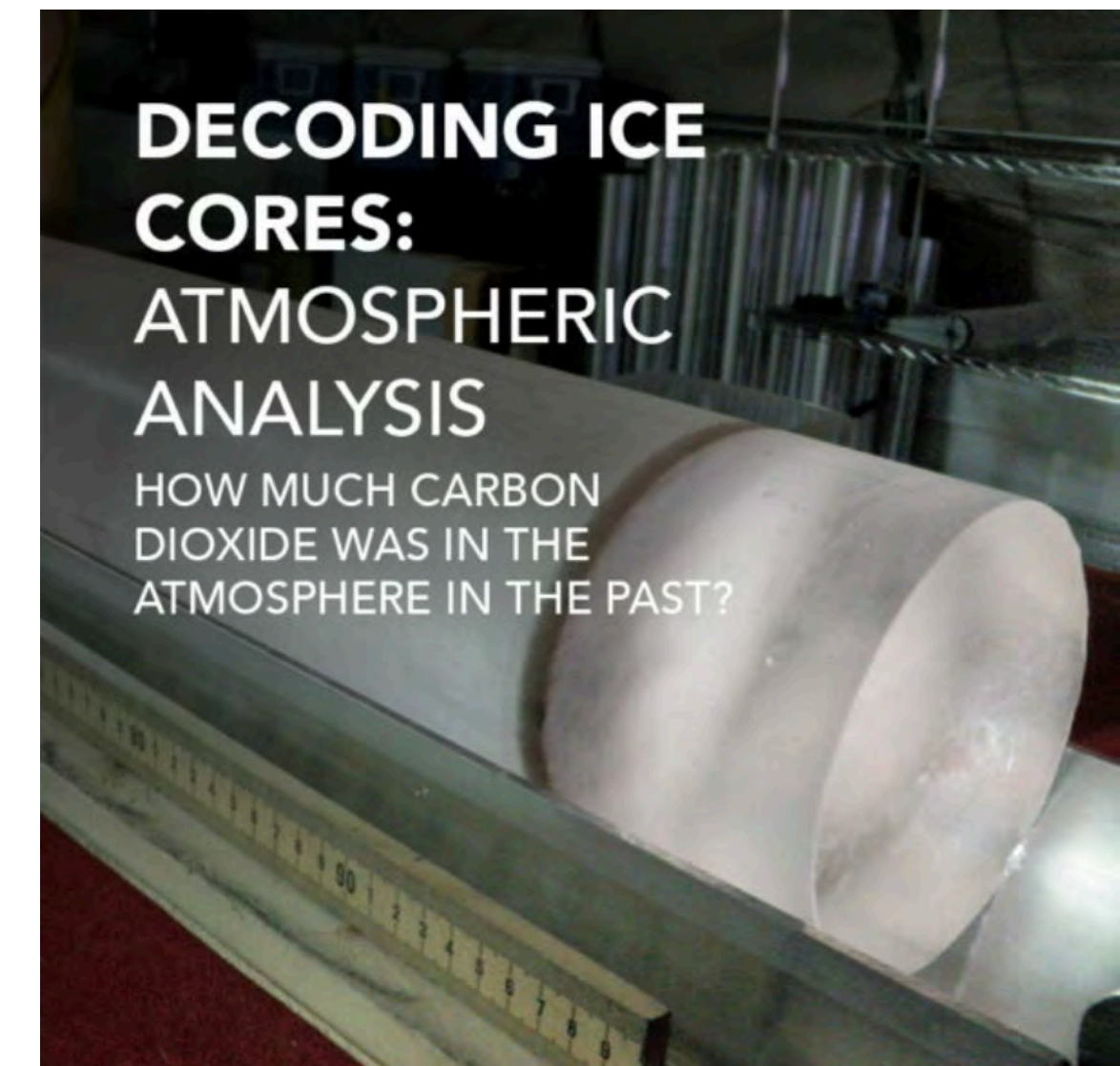
Dr. Dom Winski  
University of Maine



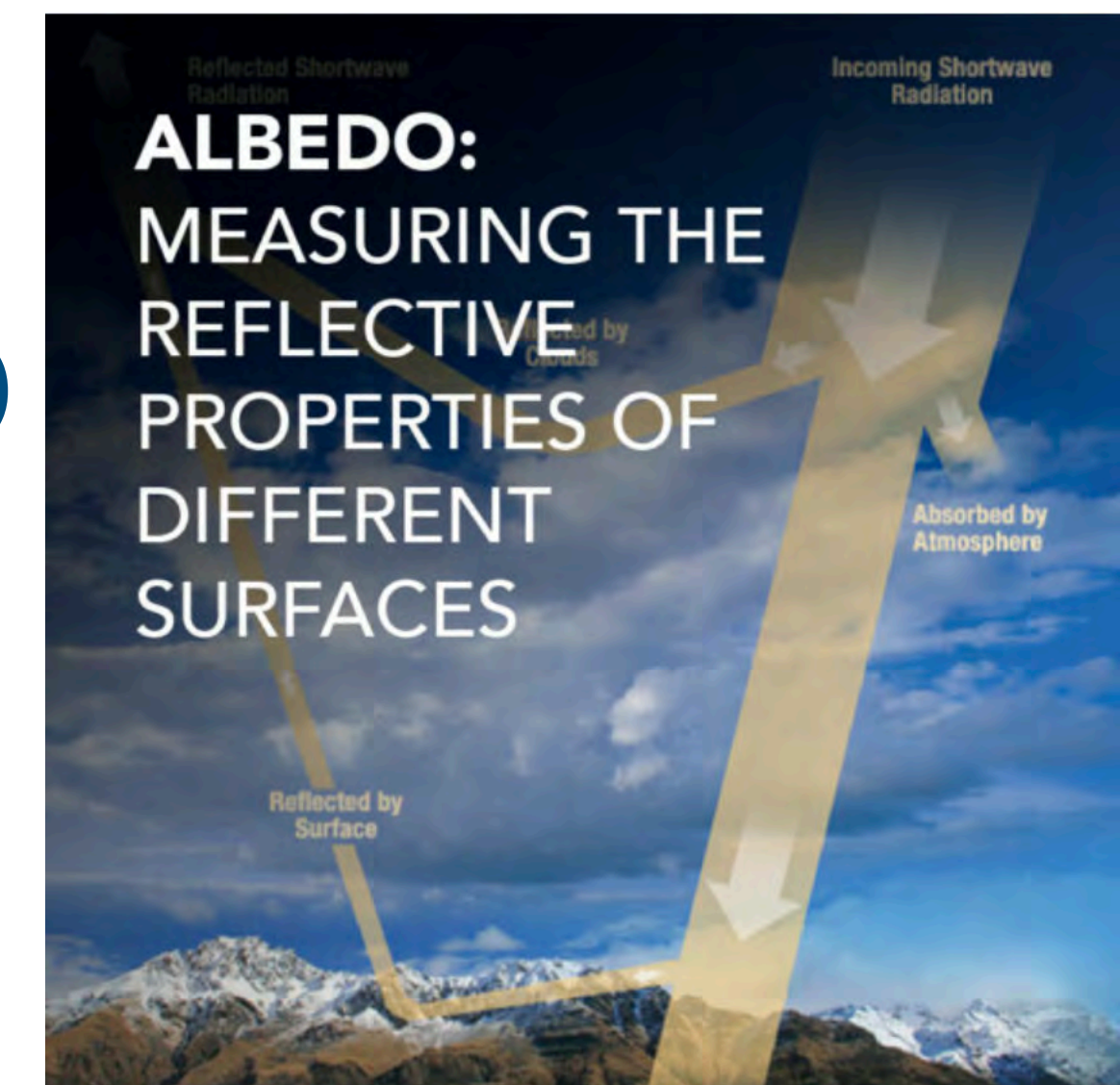




# Classroom Labs and Activities



1. Based on current science research
2. Use easily obtained materials
3. Aligned with Next Generation Science Standards (NGSS)
4. Entry level —can be used from middle school to college
5. Inquiry based/hands—on







Ted X Mile High Event—Partnered with NSF ICF



[icedrill.org](http://icedrill.org)



# Public Outreach

Grad students helped at Montshire Science Museum, Vermont



Women's Club in Naples, FL



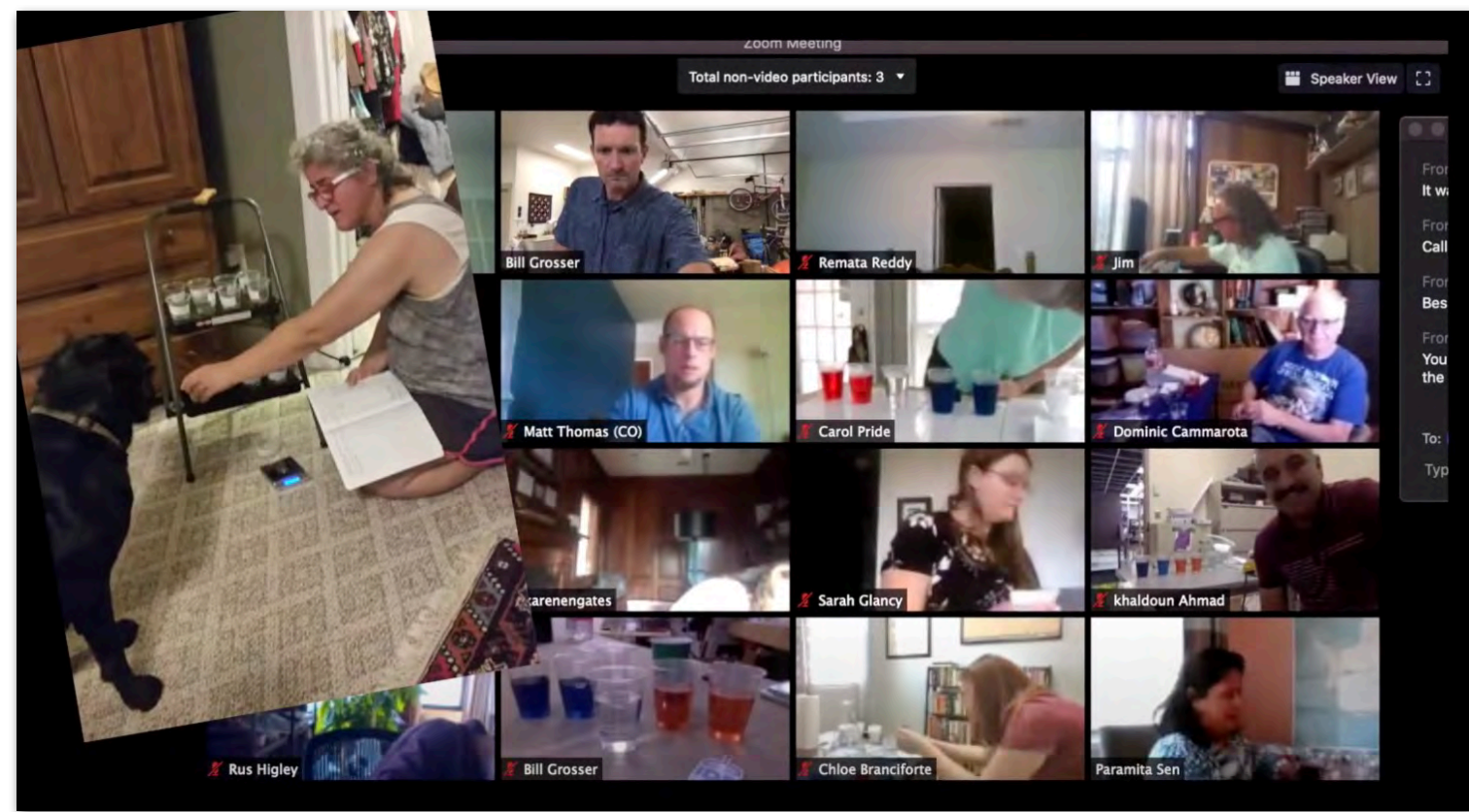
Public Event at Geology Museum at Rutgers



Winter Science Event at Science Museum of Orlando

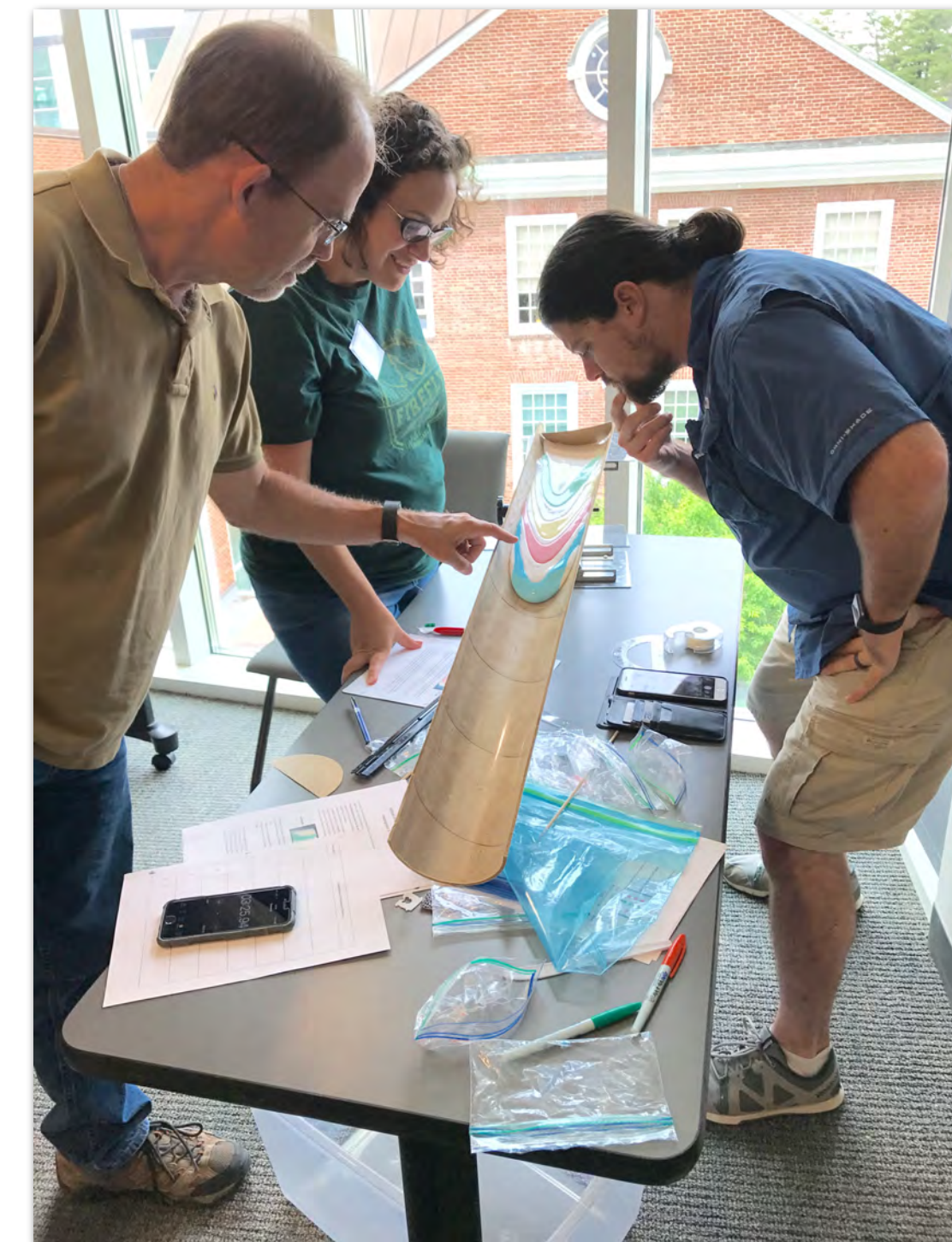
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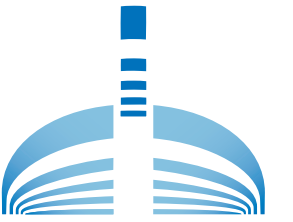


# School of Ice

## Professional Development for Faculty at Minority Serving Institutions







# Schools of Ice 2022

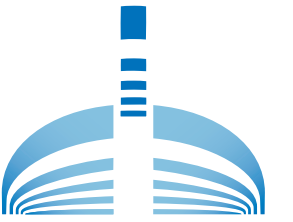
June 26-30, 2022 Dartmouth,  
Hanover, NH

August 7-11, 2022 COLDEX-OSU,  
Corvallis, OR



**Please advertise to colleagues**  
[icedrill-education.org/school-of-ice/](https://icedrill-education.org/school-of-ice/)

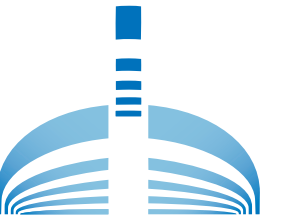




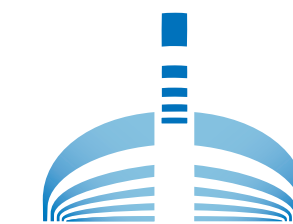
How can the IDP EPO help you meet your broader impacts?

QUESTIONS  
or  
Suggestions?









# Professional Development K-12



Golden Apple



NSTA



AGU-GIFT