Polar Professional Development ED 593: Applied Physical Science Concepts for Educators

Bringing the Transantarctic Expedition into the Classroom

Brian DuBay

Grissom Middle School

Warren, Michigan

24 April 2013





Blackboard collaborate.



Please Note:

- Participants using the telephone can mute/unmute by pressing *6 on the phone.
- Today's event will be recorded and archived.

Questions

During the Presentation:

Type your question in the text chat box

At the End of the Presentation:

- Raise your hand with the "hand button".
- PolarTREC staff will call on you.
- Speak loud and clear and directly into the phone to ask your question.

Click on the Talk button to speak. Unclick when you are done.

Participant Introductions

When called, please state your:

- ✓ Name
- ✓ School / Institution
- ✓ The number of adults participating
 with you in the same location

What is PolarTREC?

PolarTREC is a professional development experience in which K-12 teachers are paired with researchers for 2-6 week research experiences in the polar regions.

From 2010-2013, nearly 50 teachers from around the United States will join scientists in the Arctic and Antarctica to learn about science, the polar regions, and to share what they have learned with their students and communities.

Topics under discussion

- Public Outreach
 - Twitter
 - YouTube
 - Skype
 - ProfessionalDevelopment Meetings
 - Newspapers

- Video Journaling
 - Why videos instead of written journals
 - Student responses to videos
 - Tips on Making Movies.

Connecting To Your Students Through Social Media









Public Outreach

Twitter

Setting up a dedicated school appropriate Twitter account, made gaining my student's attention easy and amazingly effective.

Now I use Twitter for classroom announcements, homework, and questions.

Of course any abuse of the Twitter account is punishable under school regulations.



Connect

Public Outreach



Installing Seismic Stations on Glacial Ice.mov

by PolarTRECProgram • 4 months ago • 99 views
Installing Seismic Stations on Glacial Ice with crevasses.



Plethora Of Penguins.mov

by **PolarTRECProgram** • 4 months ago • 172 views Cape Washington Emperor Penguin Rookery.

HD



Weather Days Off At Terra Nova.mov

by **PolarTRECProgram** • 4 months ago • 83 views Terra Nova Days Off.

HD

YouTube

- Links from
 websites to
 YouTube, means
 greater
 exposure.
- Comments were positive.
- Responding promptly is crucial.





Reply

Reply







PolarTRECProgram Where is Mcmurdo? YouTube comments gave me ideas on what to add to the next videos.

Skype



Every time I Skyped the class, students were thrilled and word spread about the feed to students in other hours and grades.

Public Outreach

Professional Development Meetings



http://masterfulfacilitation.com

- Teachers have the shortest attention spans!
- Quick and to the point
- Talk with Curriculum groups or at professional development events

I spoke with staff, before my departure, for ideas they wanted me feature for their classroom while in Antarctica. This made the staff feel part of the experience.

Follow up meetings and being asked to visit other classroom helped the whole school, not just my students, feel involved.

Public Outreach

- **Newspapers**
 - More important than you would think
 - Community involvement changes everything!



CAREGiver Points Program: Earn Great Rewards

Annual CAREGiver Recognition Dinner

OR APPLY ONLINE AT

Warrenweekly.co m

arctica, and researchers are try-

to determine exactly what

then being tapped by a specific

See DUBAY on page 25A

Video Journaling

- Why videos instead of written journals?
 - Journals with pictures are effective but videos give a more complete experience.
 - My first journal entry most students did not read, but once I started video journaling the feedback was astounding.
 - Students still tell stories and comment on what they viewed.



Video Journaling

Student Responses

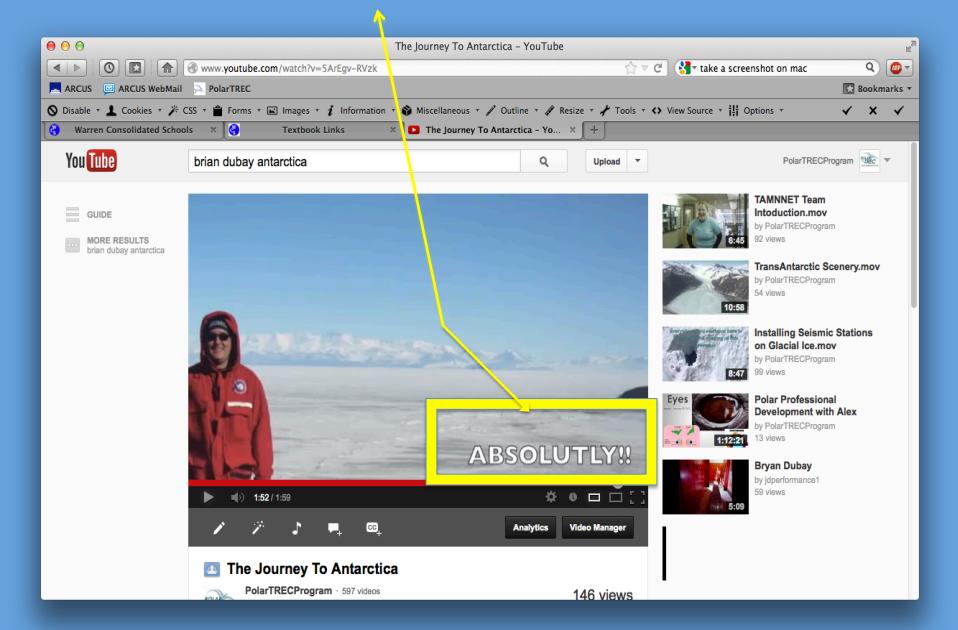


- Comments allow you to know what is working and what is not.
- Students always have their phones with them.
 - They did not need to be in class to check up on the expedition.

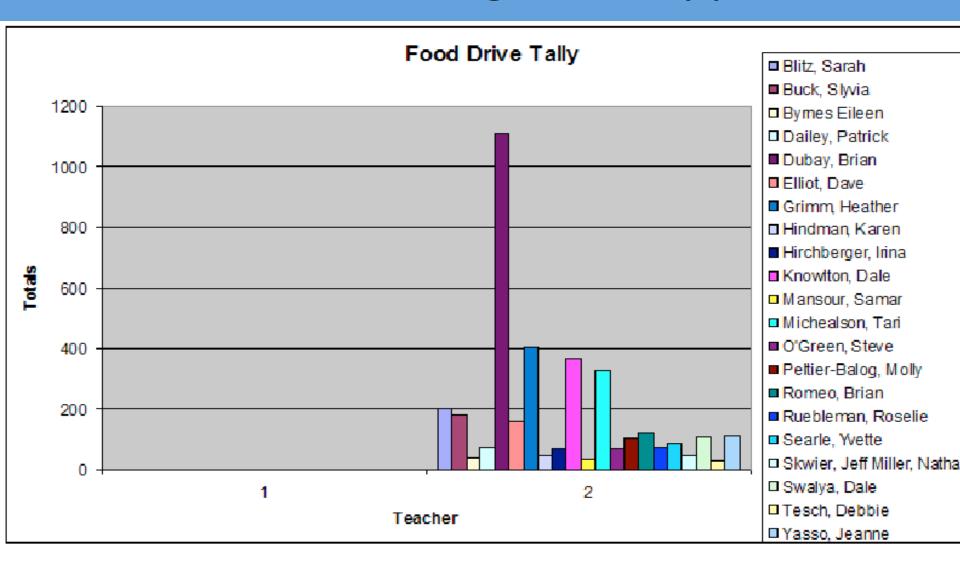
Video Journaling

- Tips on making videos
 - Be entertaining and humorous
 - Keep it short (under 10 minutes)
 - Add music
 - Sneak in curriculum content
 - Finish the video with discussion topics***
 - I utilized Imovie.

Proof Read!!



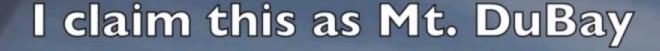
Once everyone is on your side... Incredible things can happen



At first this started as a joke..

Installing Seismic Stations on Glacial Ice.mov





Was all this worth it?

I can ask my students do they remember
Where is Antarctica, Where is McMurdo, how a seismometer works, what do emperor penguins sound like, and why was Dr. Hansen placing these seismometers in Antarctica...

And they remember!!

Success!!!

Questions

During the Presentation:

Type your question in the text chat box

At the End of the Presentation:

- Raise your hand with the "hand button".
- PolarTREC staff will call on you.
- Speak loud and clear and directly into the phone to ask your question.

Click on the Talk button to speak. Unclick when you are done.

Teachers: Join PolarTREC!

www.polartrec.com/about/join

Every teacher can participate in different ways:

- Following Expeditions
- Participate in PolarConnect Events
- Join the Polar Education Email List
- Take Online Professional Development Courses
- Become a PolarTREC Teacher!

Upcoming Events

Watch for and register for upcoming events at www.polartrec.com!

Thank You!

An archive of the event will be available shortly.

http://www.polartrec.com/polar-connect/archive

