The Arctic in the Classroom Program

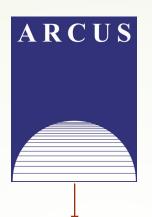
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ARCUS

The Arctic in the Classroom (TAC)

- The Arctic Research Consortium of the United States aims to bring together the best practices in facilitating successful citizen science projects and community-based monitoring to support the collaboration of students, teachers, and researchers in Arctic communities.
- ARCUS will identify tools within the best practices of how to administer these two types of inclusive science practices, with the goal of developing a framework for new and experienced researchers to engage Arctic communities in their work, and offer a window for students and teachers into the relevancy of science projects in their communities.
- Support for this program is provided by the Arctic Research Consortium of the U.S. (ARCUS) and applicable community service payments from federal court settlements.





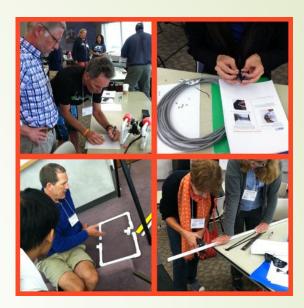


Education & Outreach Component

- Engage teachers, researchers, and community members
- Make local research relevant to students
- New standards for STEM
- Challenges of impermanence
- Don't create, facilitate. (A guide on the side.)
- Linking citizen science and community-based monitoring.
- Four years of funding to support teachers & researchers
- Sustainable collaborations.
- Develop an educational resource available nationwide that allows students to ability to utilize data in meaningful ways and connects students to science identities.

Success with ARCUS

- PolarTREC program Teacher Research Experience
- Arctic Ocean Workshop
- Polar ROV Workshop
- Cyber-based Interdisciplinary Science Education

















Arctic Science Summit Week (ASSW)

- Largest gather of Arctic-engaged people & organizations in 2016
- Leverage the attendees to share wisdom and insight
- The Summit is designed to strengthen international, interdisciplinary collaborations and facilitate communication across academia, government agencies, local communities, industry, nongovernmental organizations and other Arctic stakeholders. The Summit will be composed of plenary presentations, panel discussions, open and closed-business meetings, and working group sessions.



15–15 March: Arctic Science Summit Week Business Meetings
15–17 March: Arctic Council Senior Arctic Officials Meeting
15–18 March: Arctic Observing Summit
9–15 March: Model Arctic Council
15 March: International Arctic Assembly

Solicitation & Acceptance

- Solicited across the ARCUS & partner networks
- Received over 45 applications
- Priority to Arctic and Rural Alaska Teachers
- Leveraged UAF researchers
- Partners, Mentors, Leaders, Guides included
- Location, professional goals, previous collaboration, interests, motivations, experience, etc.

Registration Now Open: Make an Impact

A workshop partnering scientists educators and community members to improve Arctic education.

13-15 March 2016 Arctic Science Summit Week Fairbanks, Alaska

The Arctic in the Classroom program is currently accepting applications from teachers and researchers for participation in the Make an Impact workshop, the program's kick-off event. Travel, accommodations, and ASSW registration are covered for the workshop. Participants are also awarded the opportunity for continued support within The Arctic in the Classroom program. Registration period: 11 January - 1 February 2016.

Workshop organizer, the Arctic Research Consortium of the United States (ARCUS) is looking for:

- Educators that currently teach in Alaskan Arctic communities, with experience or interest in incorporating local Arctic research into their teaching through citizen science and community based monitoring.
- Researchers who conduct funded research in the Alaskan Andric with experience or interest using ditizen science practices as a method to expose teachers, students, and local communities to local Andric research.

Register at: www.arcus.org/ tac/2016-workshop/registration

For questions contact Sarah Bartholow at sbartholow@urcus.org.



Funding Focus	Timeline	Activity Focus	Major tasks and activities
Meeting & Management	Summer & Full 2015	Tean Preparation & Community Building	Resource review, define goals, objectives, and evaluation plan. Target schools/districts/teachers and researchers/projects participants.
	Winter 2016		Host intro webinse to bring people together. Preparation work for ASSW workshop.
	Spring 2016		Host ASSW workshop for interested teachers and researchers. Workshop aims include: Introduction citizen science framework and overlay with community observation systems in place in rural Alaska. Community building activity between participants. Researchers share science projects (new or existing). Community and teachers explain the relevancy of existing science in their communities, if any. Share the community needs that could benefit from scientific monitoring. Teacher/community member exposure to science meetings at ASSW, with researcher as partner. Begin project planning on how to start the citizen science project in the community.

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PROJECT Y2 Team Site Visits	Summer 2016 Full		Pair researchers, teachers, and recruit community members for teams. Set up field visits (to research site, to classroom in fall). Researchers to visit communities. Presentation #1 to community.
	2016 Spring 2017	Initial Data Collection & Formative Reflection	Data collection at community by researchers.
	Summer 2017		Data collection at field sites concurrent with community/citizen science.
PROFECT T YS Meeting & Management	Full 2017		Students/Team begin to data collection, depending on project phase.
	Winter 2017		Webinars and team calls during school year for teachers and researchers on analyzing data to start prepping students for this phase.
	Spring 2018		Team Summit Comparing data collected & Reflect on Experience Techniques to analyze data & make inferences for the future Reconnect community value & relevance with the data collection Teams begin capstone development

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PROJECT Y4 Team Site Visits	Spring - Fall 2018	Continued Data Collection & Summative Reflection	Student/Team data collection.
	Fall 2018		Final Site Visits to finalize resource/capstone. Team presentation to the community #2.
	Winter 2018		Final Reflection/Wrap-up Webinar event.
	Spring 2019		Final Capstones Due
	June 2019		Final ARCUS Reports Due