The Climate Teacher Ed Collaborative

Network Initiative Overview • January 2023
We need a societal shift in how we collectively understand and respond to climate change. Education is a vital institution to support this transformation.
“While a strong majority of young people (88%) care about the climate, roughly two-thirds (65%) are unsure of what they can do to personally impact climate change.”

Data For Progress (11 May 2022)

Education has a vital role to play in closing the ‘climate action gap.’
A network engaging educators across Washington state in professional learning about equitable science education with a focus on climate science instruction. Since 2018, the ClimeTime network of state employees, community-based organizations, and Tribal Nations have worked with 26,000 teachers across Washington.
A network building resources and capacity to teach about community climate justice projects and youth civic action in teacher education programs.

We have been convening the network and engaging in: (a) shared learning experiences & building community, (a) co-design of teacher ed OER, and (c) redesigning teacher ed courses.
Participants in the Collaborative

Central Washington University: Adrienne Pinsoneault, Allyson Rogan-Klyve, Mark Oursland, Vanessa Hunt
Eastern Washington University: Kathryn Baldwin
Gonzaga University: Jonas Cox, Brian Henning, Karli Honebein, Kathy Nitta
Seattle University: Margit McGuire, Mark Roddy, Ana Rivero
University of Washington Bothell: Veronica McGowan
University of Washington Seattle: Cap Peck, Jessica Thompson, Mark Windschitl, Molly Shea
Washington State University, Vancouver: Charlotte Waters, Tamara Holmlund, Jessica Masterson
Washington State University, Pullman: Sarah Fick*
Western Washington University: Don Burgess

Individuals from OSPI, Islandwood, UC Berkeley, and University of Colorado Boulder
Climate Collaborative Shared Aim

**Shared Aim**

Future teachers are ready to engage youth in community climate justice projects & justice-centered civic participation about the climate crisis

**Primary Drivers**

- Developing shared commitment and understanding of the pursuit via reflexivity & collaboration
- Infrastructuring teacher ed course & field experiences (materials, experts, opportunities, interdisciplinary approaches, equitable partnership models)
- Access to Adaptable, Climate-Justice Curriculum Modules, Field Experiences & Professional Learning Resources
- Collaborating with and being accountable to most impacted communities; Taking up anticolonial approaches; Ongoing Reflection & Learning

**Secondary Drivers**

- Supporting radical expansion of social relationships
- Aligning with state education and teacher education standards; Engaging with TE organizations
- Connecting Future Teachers with Supportive Networks for Sustained Learning
- Collaborative Design & Adaptation Contexts to Support Professional Learning & Course (Re)Design
- Engage our local teacher ed programs in taking up this work

**Initiative Activities**

- Network Convenings & Shared Learning Experiences
- Co-Design of Professional Learning Resources, Course Modules & Field Engagements
- Supporting Course & Field Experiences
- Coordination with other Networks & Colleagues
Collaborative Design Workgroups

- **Arts, Education & Climate Justice**: creating an asynchronous online undergraduate course and an associated set of course modules
- **Elementary Integration**: convened local network to build capacity and develop integrated lesson approaches
- **Climate Teaching Support Tools**: generating thematic categories of tools and resources for adapting existing curricula for climate action
- **Rural Climate Ed**: identifying rural contexts, groups, and phenomena to integrate into teacher ed courses
Climate Materials Provided for Use in Courses Across the Network

5 classroom sets
117 total copies

3 classroom sets
80 total copies

5 classroom sets
98 total copies

3 classroom sets
79 total copies

1 classroom set
32 total copies

1 classroom set
17 total copies

1 classroom set
12 total copies

1 classroom set
32 total copies

1 classroom set
32 total copies

1 classroom set
32 total copies

1 classroom set
32 total copies

1 classroom set
32 total copies

1 classroom set
32 total copies
Climate Teacher Education Collaborative: Webinar Series

Webinars invite experts to share their work and supporting resources.

Each webinar becomes the kernel of an OER teacher ed lesson plan.

Webinars for 2023 are currently being finalized.

Webinar Playlist
We have been developing a set of OER lessons for climate teacher education. Lessons are developed to pair with each monthly webinar recording. Please let us know if you would like to co-design them with us.
Climate Learning Resource Portal (on STEM Teaching Tools) Slide Deck

Portal Includes:
- Practice Briefs
- Climate Assessments
- Webinar Recordings
- OER Teacher Ed Lesson Plans
- Practitioner Accounts
- Research Summaries
- Climate Justice Grad Seminar

http://stemteachingtools.org/sp/climate-learning
Back Pocket Slides
University of Washington Seattle Staff Overview

Corey Shih
Admin Staff
coreyann@uw.edu
(on leave until April)

Nancy Price
Research Scientist
pricenj@uw.edu

Taiji Nelson
Graduate Student
taijin@uw.edu

Kelsie Fowler
Post-Doctoral Scholar
knp7@uw.edu

Deb Morrison
Research Scientist
eddeb@uw.edu

Philip Bell
Lead
pbell@uw.edu
Climate Teacher Ed Collaborative: Network Strategy & Timeline

• Three levels of work in the Collaborative:
  • **Small co-design workgroups** collaborate to infrastructure climate teacher ed and transform courses (ongoing / emergent)
  • **WA State Collaborative** will engage in shared learning & collaboration (monthly webinars; quarterly network meetings)
  • **Regional / national / global exchange** to sharing with and learn from other teacher ed networks (upcoming)

• Timeline & Funding
  • Initiative has fixed annual funding ($300k/year, 0% indirects)
  • Individuals are participating based on interest and capacity. Significant funds pass through to members of the Network.
New STEM Teaching Tools

Playlist of PD Video Recordings

Designing Climate Change Learning for Action

Attending to Race and Identity in Science Instruction

Why and how should I use crosscutting concepts to enhance my science instruction?

ACESSE Resource F: Guiding Instruction Based on the Range of Student Thinking Through Cognitive Formative Assessment

ACESSE Resource H: Attending to Student Interests and Community Priorities in Phenomena
Climate Ed Tool #1: Centering Environmental and Climate Justice in Education

When Might You Use It: (link)

To introduce teachers to the concept of climate justice and help them think about how to choose climate justice phenomena that fit into their curricular goals.
Climate Ed Tool #2: Leveraging Environmental Justice to Unlock the Potential of Education

When Might You Use It: [link]

To introduce teachers to the concept of environmental justice through a rich historical / scientific case study, to help them consider goals of science as an institution, and to support them in brainstorming how to select and incorporate local environmental justice phenomena into their curriculum.
Climate Ed Tool #3: It’s Not Only About the Content: People, Culture, and Processes within Climate Justice Education

When Might You Use It: (

To ask teachers to explore climate justice stories of themselves and others, to look at an organizational model of community-centered climate justice partnership, and to consider how to build their own climate justice network.
Climate Ed Tool #4: Teaching for Climate Justice and Student Action

When Might You Use It: (link)
To help teachers learn about engaging students in different forms of climate action and activism centered on hope, to learn how to navigate educational systems when doing climate justice work, and to learn about teacher-led curricular efforts about climate
Climate Ed Tool #5: (W)holistic Science Pedagogy & Climate Justice

When Might You Use It: (link)

To help teachers work to adopt a coherent pedagogical approach that supports just and liberatory science education; to learn about climate justice, social-emotional learning, and the UN Sustainable Development Goals.
Climate Ed Tools: New climate resources for teaching and learning about climate & environmental justice

Philip Bell @PhilipLBell (on Twitter)
College of Education • University of Washington

Twitter Announcement
Cap and I would love to gather input from you about climate teacher ed work using this Google document...

- What is your program currently doing around climate and environmental justice issues?
- What would be helpful to your program in preparing pre-service teachers to engage students in climate learning and action?

And then engage in a group discussion of possibilities...

- How might we work together to support programs in engaging these issues?