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Bridging the gap between in-school and out-of-school STEM learning: A research to practice study group

ABOUT CSL_____

This online journal features highly effective programs and research that connect preK–16 STEM learning across settings, and that:

- Bridge the gap between in- and out-of-school STEM learning,
- **Incorporate blended practices** from and across formal and informal settings,
- Illustrate authentic collaboration and co-creation across settings and organizations, and/or
- Utilize transdisciplinary approaches and integration within STEM and with other fields.





Teaching Strategies
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STEM Teaching Tools: Guidance for Justice-Centered Climate Change Teaching and Learning
PyPhilo Bel and Ably Whitehast

est Editorial: Exploring Climate Justice Learning: Visions, Challenges,

Informal Education Climate Change Equity Interdisciplinary Professional Learning STEM Teaching Strategies



Commitment of Community-School Relationships Around Shared Visions of Climate Dustion
Science Teaching
Port Sigura, Daniel Montes-Dayle, Suan Netson, Any Levingston, and Karen Canales
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www.nsta.org/connected-science-learning

PROJECT OVERVIEW

GOAL: Advance the field by providing resources that empower STEM educators to design and deliver high-quality <u>connected learning experiences</u> based on relevant research and incorporating evidence-based practices.

PROCESS:

DEFINE

- Determine issue themes and call for contributions
- Recommend authors and recruit abstract submissions
- Review submissions and select invited authors

PUBLISH

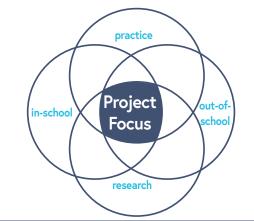
- Secure 10 invited authors to write on issue themes
- Invite additional contributions on themes through regular process
- Peer-review and publish invited articles, editorials, and regular submissions

DISSEMINATE

- Host web seminars and other virtual events
- Summarize existing research and future recommendations
- Produce compilation report with articles and other information
- Present at conferences

EVALUATE

- Consider engagement, ratings, analytics, reach, etc. of all project products
- Survey study group participants about process and products



CSL ISSUE THEMES FOR INVITED ARTICLES_

- Equity and Connection in STEM Learning Ecosystems
- Youth and Communities Taking Action Through STEM
- (Re)connecting the STEM Learning Ecosystem: Lessons From the Pandemic
- Preparing and Supporting STEM Educators in Informal and Formal Settings
- STEM Engagement: The Power of Families and Communities Each issue is published over two months, starting November 2021 and running through August 2022

PROJECT TEAM

Beth Murphy, PhD: *principal investigator* & *project director Principal Consultant, Beth Murphy Consulting*

Dennis Schatz: senior advisor NSTA Past President & Senior Fellow, Institute for Learning Innovation

Flavio Mendez: project manager

NSTA Asst. Executive Director, University Partnerships & eLearning

External evaluators: Kelly Riedinger, Natacia Campbell, Richard Hudson

Study Group Members Represent Broad STEM Education Expertise

- K-12 & Higher education: Fairfax (VA) County Public Schools, UCLA Center X, Univ. of Colorado–Boulder, Univ. of Michigan, Univ. of Texas at Austin, Western Washington Univ., US Dept. of Education
- **Nonprofit:** ASTC, California School-Age Consortium, EDC, Maine Mathematics and Science Alliance, New York Hall of Science, Techbridge Girls, TERC, Twin Cities Public Television–SciGirls
- NSF Centers: CADRE, CAISE, CIRCL, STELAR

