

# Climate Change Education Partnership Program

Increasing the adoption of effective, high quality educational programs and resources related to the science of climate change and its impacts.



**The vision of the National Science Foundation's Climate Change Education Partnership (CCEP) program** is a society that can effectively weigh the scientific evidence as it confronts the challenges ahead, while developing an innovative scientific and technical workforce that can advance our knowledge of human-climate interactions and develop solutions for a sustainable, prosperous future. The CCEP program is one facet of a larger NSF portfolio related to Climate Change Education (CCE) that has two goals: (1) preparing a new generation of climate scientists, engineers, and technicians equipped to provide innovative and creative approaches to understanding global climate change and to mitigate its impact; and, (2) preparing today's U.S. citizens to understand global climate change and its implications in ways that can lead to informed, evidence-based responses and solutions.

The NSF CCE program was initiated in FY 2009 within the Education and Human Resources (EHR) Directorate, through Congressional appropriation. As of FY 2010, CCE program funding is being shared among EHR, the Directorates for Geosciences (GEO) and Biological Sciences (BIO), and the Office of Polar Programs (OPP). The CCEP program seeks to establish a coordinated national network of robust, regionally- or thematically-based partnerships focused on common climate change impacts. Each partnership will be built upon a team of core participants comprising climate scientists, researchers with expertise in the learning sciences, and practitioners from the formal or informal education communities. A major focus of these partnerships is integration across the various scientific disciplines relevant to climate change and its impacts, as well as between formal and informal learning environments. Partnerships are expected to serve as catalytic agents whose efforts increase the development, evaluation, dissemination, and adoption of effective, high-quality educational programs and resources related to the science of climate change and its impacts.

*The CCEP program is a two-phase program:*

**Phase I Partnerships (CCEP-I):**

(Beginning FY 2010) Supports synthesis, network-building, and strategic planning activities leading toward potential Phase II Partnerships. *Total budget up to \$1,000,000 over 2 years. \*\**

**Phase II Partnerships:**

(Beginning FY 2012) Supports full-scale implementation of mature strategic plans serving the goals of the CCE program. *Total budget up to \$10,000,000 over 5 years.*



**\*\*In FY 2011, CCEP-I awardees will be able to request SUPPLEMENTAL FUNDING** in order to support: (1) early implementation of meritorious programs or activities identified during the planning effort; and/or (2) expansion of the initial Partnership through addition of other investigators seeking to collaborate with a specific CCEP-I awardee. Supplemental funding requests will be supported at up to \$250,000 total for one year in FY 2011.

# CCEP Phase I Awardees

The 15 CCEP-I awards for fiscal year 2010 are listed below. Directly underneath the title is the name of the lead researcher (principal investigator) and institution, but each partnership also includes a larger team of expertise in climate science, expertise in the learning sciences, and education practitioners directly engaged in implementation or STEM education policy development. Also listed are a few keywords associated with each award. Please see the NSF Press Release (10-165) or [nsf.gov](http://nsf.gov) for complete abstracts and additional information.

**CCEP-I: MADE-CLEAR: Maryland Delaware Climate Change Education, Assessment, and Research**

*Donald Boesch, University System of Maryland*  
- Regional climate change education reform

**CCEP-I: Climate Science Meets Social Psychology and Strategic Communications: Applying Proven Learning and Communications Strategies to Climate Literacy in the San Diego Region**

*Michel Boudrias, University of San Diego*  
- Use of "Key Influentials" (thought and opinion leaders, trendsetters) to increase public awareness

**CCEP-I: Central Great Plains Climate Change Education Partnership**

*Ben Champion, Kansas State University*  
- Enhance climate science education in agricultural and rural communities in the Great Plains

**CCEP-I: Climate Literacy Zoo Education Network**

*Alejandro Grajal, Chicago Zoological Society*  
- Connect zoo visitors to endangered polar animals

**CCEP-I: Partnership for Education on Climate Change, Engineered Systems, and Society**

*Rachelle Hollander, National Academy of Sciences*  
- Impacts of climate change for engineered systems

**CCEP-I: Making the Global Local - Unusual Weather Events as Climate Change Educational Opportunities**

*Edward Maibach, George Mason University*  
- Allow local broadcast meteorologists to educate the public about climate

**CCEP-I: Climate Change Science and Solutions: Creating Innovative Education Tools for Native Americans and Other Rural Communities on the Colorado Plateau**

*Jane Marks, Northern Arizona University*  
- Develop middle through high school climate change curriculum for Native American and rural students

**CCEP-I: Climate Literacy Partnership in the Southeast (CLiPSE)**

*Karen McNeal, Mississippi State University*  
- Improve climate literacy in Southeast U.S.

**CCEP-I: Pacific Islands Climate Change Education Partnership**

*Sharon Nelson-Barber, PREL and West Ed*  
- Climate change impacts on coastal ecosystems

**CCEP-I: Polar Learning and Responding: POLAR Climate Partnership**

*Stephanie Pfirman, Columbia University*  
- Use polar science to engage adult learners

**CCEP-I: The Great Lakes Climate Change Science and Education Systemic Network (GLCCSESN)**

*Sandra Rutherford, Eastern Michigan University*  
- Formal and informal education for the Great Lakes

**CCEP-I: Coastal Areas Climate Change Education (CACCE) Partnership**

*Jeffrey Ryan, University of South Florida*  
- Thematic focus of sea level change in coastal areas

**CCEP-I: Urban Climate Education Partnership**

*Steven Snyder, Franklin Institute Science Museum*  
- Formal and informal education for urban centers

**CCEP-I: National Network for Ocean and Climate Change Interpretation**

*William Spitzer, New England Aquarium Corporation*  
- Development of aquarium exhibits on the impacts of climate change on coastal zones and marine life

**CCEP-I: Building Place-Based Climate Change Education through the Lens of National Parks and Wildlife Refuges**

*Jessica Thompson, Colorado State University*  
- Communicate the impacts of climate change through national parks and wildlife refuges



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