Plan to come and participate in the
Climate Change Exchange
A Conference on Teaching Climate Change in the Catskills

**Date:** Friday, March 13, 2015, 8 am—2:30 pm
(Snow Date: Saturday, March 14)

**Location:** Delaware Academy, 2 Sheldon Dr, Delhi, NY
- Keynote Speakers
- Workshops
- Share-a-thon
- Resource Fair
- Special video message from Bill McKibben
- Visit Delaware Academy’s solar powered sugar house

**Sponsored by**
Cornell Cooperative Extension of Delaware County
The Manhattan Country School
Catskill Center for Conservation and Development

This conference is made possible with funds from the Catskill Watershed Corporation in partnership with NYCDEP and the O’Connor Foundation.

**REGISTER ONLINE @**
www.ccedelaware.org
or call 607-865-6531 / email vsd22@cornell.edu

<table>
<thead>
<tr>
<th>Agenda</th>
<th>Time</th>
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<tbody>
<tr>
<td>Registration</td>
<td>8:00 am</td>
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<tr>
<td>Welcome – Bill McKibben Video</td>
<td>8:15 am</td>
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<td>Welcome to the Anthropocene, Curt Stager, Professor, Paul Smith’s College—Decisions that our students will help to make within their lifetimes will affect humanity and the planet for centuries to come. As educators, we can help them to recognize their historic place in this early stage and become more effective stewards of the future. One approach is to encourage them to document their world as it changes around them, bringing climate change down to earth where it affects us personally.</td>
<td>8:30 am</td>
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<td>Share-A-Thon/Resource Fair</td>
<td>9:30 am</td>
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<td>Teachers As Emerging Leaders in Community Science, Kerissa Battle, President &amp; CEO, Community Greenways Collaborative—Teacher-led initiatives around experiential STEM learning, as well as the keen motivation of individuals and communities to know their bioregion, have sparked an unprecedented climate-related data collection movement across the nation. We will explore together how teachers (and their students) can actively explore the issues around climate change while still meeting the rigorous expectations of standards and test preparation using two innovative tools that teachers are rapidly deploying across the country: phenology trails and pollinator gardens. Both tools can create compelling, hands-on education and, at the same time, offer the chance to conduct authentic, useful research for science.</td>
<td>10:30 am</td>
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<td>School Garden Lunch</td>
<td>11:30 am</td>
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<td>Workshops 1-4 (select one)</td>
<td>12:15 pm</td>
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<td>Workshops 5-8 (select one)</td>
<td>1:15 pm</td>
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<tr>
<td>Youth Summit Video/Conference Wrap-up</td>
<td>2:15 pm</td>
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Cornell Cooperative Extension is an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities and provides equal program and employment opportunities.
Workshops

1. The Big Ideas of Sustainability: An Integrating Framework for Educating for Sustainability
   **Presenters:** Aimee Arandia Ostensen, Project Facilitator, and Alan Cass, Director of Education, with the Children’s Environmental Literacy Foundation and Farm/City Coordinator for Special Projects
   What practical Educating for Sustainability ideas, principles, and activities can I share with my school community tomorrow? Learning to see the critical issues of society, academics and daily life through the lens of systems thinking and sustainability can be one of the most empowering skills we teach students today. Come to this activity-based workshop and learn about the essential concepts behind designing any Educating for Sustainability learning experience. Together we will apply the habits of systems thinkers to experience and demonstrate how sustainability provides an integrating context for the content you are already teaching. Presented by Children’s Environmental Literacy Foundation, in collaboration with Shelburne Farms and the Clinton Global Initiative.

2. Cultivating Connections Through Music & Storytelling
   **Presenter:** Laurie McIntosh (Story Laurie)
   Music and storytelling are powerful tools for engaging students’ attention. In this workshop, award-winning performer and arts educator Story Laurie will share stories that help deepen students’ understanding of their connection to the environment. Laurie will also introduce A Harvest of Songs, a music-based educational resource for teachers in the NYC Watershed Region, which features cross-curricular lesson plans based on songs written by elementary students on local food, gardening and watershed themes. Teachers will head home with stories, songs (recordings & lyrics provided) and activities perfectly suited for their elementary school classes. (Some content applicable to higher grades as well.)

3. Cultivating Connections for the Twenty first Century
   **Presenters:** Mark Kline, Michael Cipperly & Christine Miller
   A team of educators from Delaware Academy will explain and demonstrate what Delaware Academy students in kindergarten through grade 12, are doing in the FFA Maple Syrup Program, Alternative Energy Course, Plant & Foods Science Course and the Kindergarten A-Z foods program. Specific activities will be determined partially by weather conditions on the day of the conference. Demonstrations may include tours of the FFA Sugar house and adjoining 6 kilowatt photovoltaic system, tours to the school garden locations, a tour of the plant propagation location and introduction/participation in activities that students conduct.

4. Watersheds and Water Quality Workshop
   **Presenter:** Robin Sanchez, Deputy Director of Education, NYC Department of Environmental Protection
   NYC Department of Environmental Protection (DEP) manages New York City’s Water Supply System, providing more than one billion gallons of high quality water each day to more than 9 million New Yorkers and investing in significant watershed protection programs that provide professional career opportunities and support for partner organizations in the upstate watershed. This workshop focuses on understanding the relationship of watershed protection to water quality, including how and why water quality will be affected by a changing climate. This workshop will feature hands-on activities geared towards 4th-8th grade classes that utilize maps and materials to model a watershed, and explore the connections between watershed protection and water quality.

5. Teaching Children to Care (About Nature!)
   **Presenter:** Claire Galya, Lower School Science Teacher at Manhattan Country School
   How do you teach children to care about the environment when they are too young to learn about the harsh realities of climate change? The first step is to cultivate a love of the natural world that will one day bloom into a desire to protect and preserve it. In this workshop, we’ll discuss how to facilitate hands-on, place-based experiences in nature that are developmentally appropriate for young children.
6. **Creative Climate Change Through Art**  
**Presenter:** Lisa Jacobson, MaybeArt.org, lisajacobson.org  
Creative Climate Change is a holistic learning model making design adaptable for all levels of learning. What are we made of and how do those ingredients interconnect reciprocally with our changing climate? Presented as a basic learning model for teaching and learning in visual and written form this Art making process will trace an overall history of changing climate and how reciprocity in natures systems on earth sustains life. This hands on workshop will explain by participants drawing, the basic details of our conditions on earth, what they are made of and how we are in a web of working creative processes with everything else.

7. **Community Connections and Service Learning in the Watershed**  
**Presenters:** Flannery Denny, Upper School Math Coordinator at Manhattan Country School and Ira Stern, Regional Manager in the Bureau of Water Supply for the New York City Department of Environmental Protection  
Flannery and Ira will share a project through which her high school Geometry class partnered with the NYCDEP to develop and implement a plan to remediate erosion at a pull off along the Rondout reservoir. Working with surveyors not only engaged students with real world applications of the coordinate grid and the Pythagorean Theorem, it also provided some students with the motivation to finally make sense of how the increments on measuring instruments work. Most importantly, engaging students in authentic and meaningful work in the community built pride in themselves, the class, and the natural resources in our backyard.

8. **Green Team Magic in the Catskills Watershed**  
**Presenters:** Patricia Lockhart, PreK - 5 science teacher and Deborah Klingele, Pre-K teacher and 3-5 afterschool teacher at PS 57, a US EPA/Dept of Ed Green Ribbon School  
Are you interested in learning how your school can develop more project-based “Green Team” activities? Learn how one New York City public school transitioned from small class projects to an award winning school wide sustainable “Green Team.” Additionally they have developed an afterschool program specifically designed to address climate change in the Catskills watershed. This presentation will not only be informative but highly engaging and interactive!