**[NOAA Climate Stewards](http://oceanservice.noaa.gov/education/climate-stewards/welcome.html) / Connecticut Sea Grant present an**

**Educator Professional Development Workshop:**

***Resilience: It’s Not Just Surviving the Zombie Apocalypse***

**Connecticut Sea Grant, University of Connecticut - Avery Point campus**

**1080 Shennecossett Road • Groton, CT**

**Tuesday through Thursday July 11-13, 2017**

**8:30am - 5:00pm daily**

A professional development workshop for educators who wish to:

* Increase their knowledge of climate science and resilience strategies;
* Learn about climate impacts and adaptations in the northeastern US; and
* Translate climate science and resilience to the classroom and/or informal education settings.

NOAA's Climate Stewards Education Project (CSEP) and Connecticut Sea Grant are collaborating with Federal, State and NGO partners to convene a climate science and education workshop for formal and informal educators. Participants will learn from and interact with climate science, education and communication experts. The workshop will focus on topics of climate science and resilience strategies for the northeast region of the United States, with a goal of connecting educators and their students and/or audiences to the best available science-based information and pedagogic resources.

**Featured Activities:**

* Presentations by scientists and educators on climate science and resilience.
* Activities to increase participant climate science knowledge.
* Activities and demonstrations on teaching climate, engaging in resilience activities and related topics.
* Connections to the Next Generation Science Standards.

***DRAFT AGENDA as of July 7, 2017***

***Subject to change***

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| **Tuesday, July 11, 2017** |

**TIME    ACTIVITY**

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| **8:30-9:00**  (30 min) | **Check-in**  **Coffee/Tea/Snacks** |
| **9:00-9:20**  (20 min) | **Welcome**  Objective: Participants will be oriented to the workshop setting and provide brief introductions. |
| **9:20-9:30**  (10 min) | **Evaluation overview - Molly Harrison, NOAA**  Objective: Participants will understand the workshop evaluation process and expectations.   1. Review the purpose of the evaluation and how it is used. 2. Review the evaluation elements and/expectations: pre/post-surveys, reflection form/process (implementation plan development describing how/when you will use what you learn), and long-term follow up questionnaire. 3. Talk about the 5 minute reflection time added in after each major activity. We will collect and copy for evaluation purposes. |
| **9:30-9:55**  (25 min) | **Ice breaker activity - Molly Harrison, NOAA**  Objectives: Participants will understand basic climate facts and meet other workshop participants. |
| **9:55-10:00**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **10:00-10:15**  (15 min) | **MORNING BREAK**  **Outside Room 103 - Foyer** |
| **10:15-11:10**  (55 min) | **Keynote**  Objective: Participants will learn about changing climatic conditions and resilience issues on local, regional and global scales.  Title: National Weather Service Northeast River Forecast Center Operations: Today and Tomorrow: Floods and Droughts  Presenter: Ed Capone  Service Coordination Hydrologist  NOAA/National Weather Service  Northeast River Forecast Center  Taunton, MA |
| **11:10-11:15**  (5 min) | [**Reflection**](https://docs.google.com/presentation/d/1vNblxa8ex8FR13OShurizfCW9g-Hfai9byLnqBDoq2U/edit?usp=sharing)  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **11:15-11:55**  (40 min) | **Education Activities - Part I**  Objective: Participants will partake in a series of activities from established national curriculum.  Title: Tried, True and Credible Resources  Presenter: Susan Quincy  Connecticut Department of Energy and Environmental Protection |
| **11:55-12:00**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **12:00-12:45**  (45 min) | **LUNCH**  **Outside of Room 103 - Foyer** |
| **12:45-1:55**  (70 min) | **NNOCCI presentation**  Objective: Participants will learn how to facilitate discussions about climate change.  Title: Facilitating Climate Change discussions  Presenter: Jen West - Narragansett Bay NERR |
| **1:55-2:00**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **2:00-2:55**  (55 min) | **Climate Stewards - Part I**  Objective: Participants are introduced to the Climate Stewards project.  Presenters: Molly Harrison and  Kottie Christie-Blick |
| **2:55-3:00**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **3:00-3:15**  (15 min) | **AFTERNOON BREAK**  **Outside of Room 103 - Foyer** |
| **3:15-4:10**  (55 min) | **Keynote**  Objective: Participants will learn about changing climatic conditions and resilience issues on local, regional and global scales.  Title: Weather in Our Changing Climate  Presenter: Dr. Kelly Lombardo  Assistant Professor  Department of Marine Sciences  University of Connecticut - Avery Point |
| **4:10-4:15**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **4:15-4:45**  (30 min) | **Education Activities - Part II**  Objective: Participants will partake in a series of activities from established national curriculum.  Title: More Tried, True and Credible Resources  Presenter: Susan Quincy  Connecticut Department of Energy and Environmental Protection |
| **4:45-5:00**  (15 min) | Wrap Up  Overview of Tuesday (**BOAT TRIP**)  Dress appropriately for boat trip! Closed toed shoes (no flip flops, high heels.) |

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| **Wednesday, July 12, 2017** |

**TIME     ACTIVITY NOTES**

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| **8:30-9:00**  (30 min) | **Check-in**  **Coffee/Tea/Snacks**  **Activities**   1. Participants arrive - check in 2. Coffee/tea outside Room 103 |
| **9:00-9:15**  (15 min) | **Welcome back!**  Review Day 1  Preview today  Answer questions |
| **9:15-10:10**  (55 min) | **NGSS, Resilience, Climate Change, and Natural Hazards: Making Connections**  Objective: Provide participants with an overview of NGSS and connections to workshop topics  Presenters: Kottie Christie-Blick, Molly Harrison, Diana Payne |
| **10:10-10:15**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **10:15-10:30**  (15 min) | **MORNING BREAK**  **Outside of Room 103 - Foyer** |
| **10:30-11:55**  (85 min) | **Keynote**  Objective: Participants will learn about resilience strategies as well as how populations of organisms are monitored.  Title: Stratford Point Living Shoreline: Restoring Coastal Habitats to Maintain Resiliency and Function  Presenter: Dr. Jennifer Mattei  Professor, Department of Biology  Sacred Heart University  Fairfield, CT |
| **11:55-12:00**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **12:00-12:45**  (45 min) | **LUNCH**  **Outside of Room 103 - Foyer** |
| **12:45-1:40**  (55 min) | **Keynote**  Objective: Participants will be exposed to resilience strategies at the community level.  Title: Resilience at the Municipal Level - What’s a Community to Do?  Presenter: Bruce Hyde  University of Connecticut -Center for Land Use Education and Research (CLEAR) |
| **1:40-1:45**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **1:45-2:00**  (15 min) | **Prepare for boat trip/walk to the boat**  **Leave most stuff in seminar room - bring camera, notebook (for reflection)** |
| **2:00-4:30**  (2.5 hours) | **Boat trip on Long Island Sound**  Objectives: Provide a different perspective on coastal resilience from a water view; Provide participants with a hands-on experience on Long Island Sound. |
|  | **AFTERNOON BREAK (on the boat)** |
| **4:30-5:00**  (30 min) | **Reflection on the boat**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |

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| **Thursday, July 13, 2017** |

**TIME     ACTIVITY**

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| **8:30-9:00**  (30 min) | **Check-in**  **Coffee/Tea/Snacks**  **Activities**   1. Participants arrive - check in 2. Coffee/tea outside Room 103 |
| **9:00-9:15**  (15 min) | **Welcome back!**  Review Day 2  Preview today  Answer questions |
| **9:15-10:25**  (70 min) | **Climate Stewards - Part II**  Objective: Teaching Sea Level Rise & Resilience  Presenters: Kottie Christie-Blick and Molly Harrison |
| **10:25-10:30**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **10:30-10:45**  (15 min) | **MORNING BREAK**  **Outside of Room 103 - Foyer** |
| **10:45-11:55**  (70 min) | **Keynote**  Objective: Participants will understand how changing climate can lead to changes in species’ phenology  Title: The Times They are a-Changing: Shifting Phenology in Northeast Coastal Ecosystems  Presenter: Adrian Jordaan,  University of  Massachusetts, Amherst |
| **11:55-12:00**  (5 min) | **Reflection**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **12:00-12:45**  (45 min) | **LUNCH**  **Outside of Room 103 - Foyer** |
| **12:45- 2:00**  (75 min) | **Avery Point & Resilience**  Objective: Show examples of resilience projects on the Avery Point campus; discuss potential opportunities for students and teachers in their own campus or community.  Title: Coastal Resilience Front and Center: A UConn-Avery Point campus tour  Presenter: Nancy Balcom  Associate Director, Extension Leader  Connecticut Sea Grant |
| **2:00 - 2:45**  (45 min) | **Climate Stewards - Part III**  Objective: Expose participants to Climate Stewards proposals process.  Presenters: Kottie Christie-Blick and Molly Harrison |
| **2:45 - 3:15**  (30 min) | **Final Reflection and Final Evaluation**  Objective: Participants will consider and make note of ways to incorporate workshop presentations, activities, and discussions into their work. |
| **3:15-3:30**  (15 min) | **AFTERNOON BREAK**  **Outside of Room 103 - Foyer** |
| **3:30-4:30**  (60 min) | **Coastal Resilience Game**  Objective: Participants will experience the consequence of their actions and explain what choices make coastal resilience more effective.  Presenter: Molly Harrison |
| **4:30-5:00**  (30 min) | **Wrap Up**   1. Questions or thoughts to share? 2. Explain they will gain access to all the materials from the workshop (except those presenters don’t want to share) and certificate of participation when we verify evaluations completed. 3. Closing - Go around the room and ask each, “If you only had time to implement one presentation or activity from the workshop, what would it be?” |