

# Adaptation Planning and Practices for Pennsylvania Forests

## September 24: Preparing for Climate Change

Natural resource managers face the tremendous challenge of developing and implementing management actions that help ecosystems respond to climate change. This session will:

- § Provide information on the current and anticipated effects of climate change on Pennsylvania and its forests
- § Describe resources and tools that can be used to integrate climate change into management
- § Outline adaptation concepts and strategies in the context of sustainable forest management
- § Identify actions that enhance the ability of forests and other ecosystems to adapt to changing conditions
- § Highlight real-world examples of adaptation projects, and engage participants in a variety of interactive activities to identify climate change issues and potential adaptation actions.

**Room set-up:** Classroom style for about ~100; LCD projector; microphone; internet w/ webinar; coffee in back; registration table.

8:30 **Registration & Coffee**

9:00 **Welcome & Introduction**

*Peter Hoagland, USDA Natural Resources Conservation Service*

*Allyson Muth, Center for Private Forests, Penn State*

*Stacey Clark, USDA Natural Resources Conservation Service and NIACS Liaison*

**A Framework for Responding to Climate Change**

*Patricia Leopold, Northern Institute of Applied Climate Science & Michigan Technological University*

9:30 **Pennsylvania's Changing Climate (Presentation)**

*Greg Czarnecki, Pennsylvania Department of Conservation and Natural Resources*

10:00 **Break**

10:15 **Climate Change Effects on Forest Ecosystems (Presentation)**

*Patricia Leopold, Northern Institute of Applied Climate Science*

11:00 **Climate Change Effects on Forest Hydrology (Presentation)**

*Bryan Swistock, Penn State University*

11:30 **Climate Change Effects on Carbon**

Todd Ontl, Northern Institute of Applied Climate Science, USDA Climate Hubs

12:00 **Lunch (on your own, suggest on-site restaurant PJ Harrigan's salad and hot bar)**

1:00 **Adapting Forests to Climate Change: Approaches for Action (Presentation)**

*Stacey Clark, USDA Natural Resources Conservation Service and NIACS Liaison*

1:30 **Real-world Examples of Forest Adaptation (Presentations)**

2:15 **Break**

2:30 **Activity: Integrating Climate Change into Your Land Management**

*Individual work sheets + group work time + discussion*

3:50 **Closing Comments**

*Patricia Leopold, others*

4:00 **Adjourn**

Ramada Conference Center, 1450 S. Atherton St., State College, PA

# September 25: Forest Adaptation Planning & Practices

This active, hands-on training is being held for a limited number of participants. Natural resource managers will incorporate climate change considerations and identify actions for adaptation into their own real-world forest management projects. Staff from the Northern Institute of Applied Climate Science will facilitate the training and provide post-training follow-up and assistance.

**Room set-up:** Classroom style for ~25 participants

- 8:15     **Registration & Coffee**
- 8:30     **Introductions and Agenda Overview**
- 9:00     **Step 2: Climate Change Impacts on Forest Management Projects – ACTIVITY**
- 10:00    **Break**
- 10:15    **Step 3: Challenges/Opportunities for Meeting Management Objectives**
- 11:30    **Step 4: Identifying Forest Adaptation Approaches and Tactics**
- 12:00    **Lunch (Provided)**
- 1:00     **Step 4 (Continued): Identifying Forest Adaptation Approaches and Tactics**
- 3:00     **Break**
- 3:15     **Step 5: Identifying Metrics for Monitoring and Evaluating Effectiveness**
- 4:00     **Next Steps & Wrap-up**  
Remember to fill out evaluations that were handed out during break
- 4:30     **Adjourn**