



NCEER '09 PRE-CONFERENCE TECHNICAL WORKSHOP — Monday, July 20, 2009 (8:30am-12noon):

Developing Restoration and Management Strategies in the Context of Climate Change

WORKSHOP FEE: \$25 (NOTE: Participation is limited to 40 attendees; registrations must be completed by June 15, 2009 or until the workshop is full. Participants will be enrolled in the order in which their registration is received.)

Instructors:

Laura Stroup, *Texas State University*
Gregory Eckert, *National Park Service*,

Glenn Landers, *U.S. Army Corps of Engineers*
G. Ronnie Best, *U.S. Geological Survey*

Workshop Aims and Description:

This workshop will introduce the topic of climate change and identify forecast consequences on a regional basis. Diverse strategies for contending with the effects of climate change will be presented. The workshop is intended to provide resource managers with an opportunity to explore applications of these strategies with managers working on similar resource issues, and particularly, approaches to address uncertainties associated with climate change. To accomplish this, the workshop will be structured in three parts.

Part I: Introduction to Climate Change (8:30-9:30 am)

This session begins with a reflexive exercise. Attendees will be asked how they would define climate change, climate variability, adaptation, mitigation, and other key terms. The Intergovernmental Panel on Climate Change (IPCC) terms and definitions and key findings will then be presented. The terms and timeframe attendees use in their daily practice to make management decisions and the amount of time required by attendees respective agencies' will be explored by the group in this context.

Part II: Conceptual Framework for Addressing Climate Change Uncertainties (9:30-10:30 am)

This session will present a variety of conceptual frameworks and tools for addressing uncertainty under global change. These include vulnerability, scenario planning, resiliency, adaptive management, risk assessment, ecological integrity, adaptation, and transformability. A structured approach to applying these tools will be presented in the context of climate change impacts. The group will collaboratively work through case studies from upland, coastal, and aquatic systems. The use of an adaptive management framework will be emphasized.

Part III: Breakout Session (10:45-12:00 am)

Break-out sessions will be convened where participants share ideas and interact with fellow attendees to conceptualize challenges and approaches to manage the consequences of climate change. The composition of the break-out groups will highlight the importance of collaborative learning, interagency cooperation, and public education programs to the implementation of any climate change adaptation strategy. Break-outs will additionally be structured by resource type, such as coasts, uplands, rivers and habitats and diversity of expertise. The break-out groups, each aided by one of the workshop instructors, will report their "ideal" hybridized adaptation strategy for their hypothetical system to conclude the workshop in light of the following points:

- Does your strategy provide greater resilience and flexibility in light of the uncertainty of climate change effects?
- What do you think are the largest barriers to implementing your proposed practice?
- What are some of the ways you could facilitate incorporation of your flexibility initiatives into your agency's practices?

The workshop will conclude with a summary of take-home points, identified throughout the morning's collaborative activities, concerning how to better address climate change concerns in restoration and management practice.

Questions? Contact Workshop Organizer Greg Eckert at: Greg_Eckert@nps.gov