Agenda for Coastal Climate Adaptation and Resilience Workshop: Supporting climate and coastal resilience planning in the Western Lake Erie Basin
Wednesday, June 19, 2013 from 8:00 AM to 4:30 PM (EDT)
Perrysburg, OH

**Workshop Agenda**
Owens Community College Toledo Area Campus
June 19, 2013

8:00 a.m. Registration and check-in

8:30 a.m. Welcome
Melissa Greene, Lucas County
Patekka Bannister, City of Toledo

Course Overview and Introductions
Heather Elmer, Ohio Department of Natural Resources Division of Wildlife
Patrick Robinson, University of Wisconsin Extension

8:45 a.m. Setting the Stage – Developing a Great Lakes Coastal Resilience Planning Guide
Jeff Stone, Association of State Floodplain Managers

9:15 a.m. Climate Trends in the Western Lake Erie Basin
Molly Woloszyn, Midwest Regional Climate Center

9:45 a.m. Climate Change Science and Regional Impacts
Jeff Andresen, Michigan State University

10:15 a.m. Break

10:30 a.m. What Does Climate Change and Coastal Resilience Mean for You?
Heather Elmer and Patrick Robinson

10:50 a.m. Adapting to Climate Change - Planning Strategies and Tools
Tashya Allen, NOAA Coastal Services Center
Patekka Bannister, City of Toledo
Melissa Greene, Lucas Soil & Water Conservation District

12:00 p.m. Lunch

1:00 p.m. Breakout session tracks

1. Adaptation Planning in the Western Lake Erie Basin
2. Developing Western Lake Erie Case Studies for the Great Lakes Coastal Resilience Planning Guide
3. Climate Change Adaptation Tools and Resources
4. Climate Change Communication, Engagement, and Action

4:00 p.m. Next Steps and Closing Remarks

4:30 p.m. Adjourn
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Breakout Sessions

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<tr>
<td>1:00pm</td>
<td>Integrating Adaptation into Municipal Plans and Programs</td>
<td>Examining Habitat &amp; Environment Case Studies</td>
<td>Introduction to Vulnerability Assessment and Identifying Vulnerabilities in Your Community</td>
<td>Fostering Climate Action - Community-Based Social Marketing and other Strategies</td>
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**TRACK A**

**Adaptation Planning in the Western Lake Erie Basin**

- **Innovative Adaptation Strategies**
  - Learn about innovative adaptation strategies being implemented in the region.
  - Explore case studies from various communities and organizations.

**TRACK B**

**Developing Western Lake Erie Case Studies for the Great Lakes Coastal Resilience Planning Guide**

- **Case Study Development**
  - Collaborate on developing case studies for the Great Lakes Coastal Resilience Planning Guide.
  - Focus on incorporating local context and best practices.

**TRACK C**

**Climate Change Adaptation Tools and Resources**

- **Climate Change Adaptation Tools**
  - Introduction to climate change adaptation tools and resources.
  - Discuss available tools and their applications.

**TRACK D**

**Climate Change Communication, Engagement, & Action**

- **Climate Change Communication**
  - Strategies for effective climate change communication.
  - Tools and techniques for engaging communities.

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**Session Descriptions**

**Integrating Adaptation into Municipal Plans and Programs**

- **Patekka Bannister**
  - Examining engagement between the Great Lakes Adaptation Assessment for Cities and the City of Toledo.
  - Identify key areas of concern and ongoing discussions.
  - Hear findings from GLAA-C on how adaptation strategies are being integrated into a variety of non-climate action plans from across the country.
  - Participants will identify areas of impact and key departments needed to respond to these impacts.

**Examining Habitat & Environment Case Studies**

- **Healthy coastal zone and watershed ecosystems**
  - Discuss how ecosystem services can buffer upland areas from erosive forces like wind, waves, and storm surge.
  - Explore the role of healthy ecosystems in mitigating flooding and adapting to changing short- and long-term conditions.

**Introduction to Vulnerability Assessment and Identifying Vulnerabilities in Your Community**

- **Tashya Allen**
  - A brief introduction to vulnerability assessment.
  - Engage in group work to identify vulnerabilities across sectors in your community or organization.
  - Discuss barriers to and benefits of adaptation, action time frames, and next steps.

**Fostering Climate Action - Community-Based Social Marketing and other Strategies**

- **Bret Shaw**
  - Highlight best practices and tips for successful climate change communication.
  - Explore social marketing approaches that support individual action.
  - Discuss the importance of community engagement in climate action.

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**Session Details**

- **1:00pm**
  - **Integrating Adaptation into Municipal Plans and Programs**
  - **Examining Habitat & Environment Case Studies**
  - **Introduction to Vulnerability Assessment and Identifying Vulnerabilities in Your Community**
  - **Fostering Climate Action - Community-Based Social Marketing and other Strategies**
| City of Toledo  
Beth Gibbons,  
University of Michigan | natural hazards and climate change.  
Katie Kahl, Rachael Franks Taylor, The Nature Conservancy |  |  |
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<td>2:00pm</td>
<td>Integrating Climate Change Resilience into the Toledo-Lucas County Sustainability Plan</td>
<td>Examining Land Use &amp; Zoning Case Studies</td>
<td>Stepping through Coastal Resilience Planning using the Climate Adaptation Collaboratory</td>
<td>Connecting People and Climate Change - Climate Wisconsin Videos</td>
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**Integrating Climate Change Resilience into the Toledo-Lucas County Sustainability Plan**

Join this brainstorming and strategy discussion to discuss how climate change can be addressed in the Lucas County sustainability plan. The session will focus on how climate change may impact plan focus areas and how the county’s sustainability goals within those focus areas are addressing climate change.

Melissa Greene, Lucas Soil and Water Conservation District
Becky Fedak, Brendle Group

**Examining Land Use & Zoning Case Studies**

Planning and managing land use involves tradeoffs and, often, the balancing of multiple objectives (e.g. fiscal, economic, aesthetic, and environmental) that requires an understanding of natural hazards and risks, including potential impacts resulting from climate change. This session will look at the data, tools and applications that could help address land use decisions related to natural hazards, such as flooding and the impacts that a changing climate may have on those decisions. We will also explore ideas for new case studies and local stories that look at land use issues, natural hazards and climate change.

**Stepping through Coastal Resilience Planning using the Climate Adaptation Collaboratory**

This session will familiarize users with the Climate Adaptation Collaboratory, an online, interactive resource and workspace for conservation practitioners, decision-makers, and researchers to find and discuss information, tools, and experiences related to climate change adaptation. The session will introduce a new adaptation workflow concept through a live, local example and illustrate how the Collaboratory links to partner resources, tools, and data around the Great Lakes basin to facilitate information.

**Connecting People and Climate Change - Climate Wisconsin Videos**

Climate Wisconsin is an educational multimedia project featuring stories of climate change. Produced by Finn Ryan, the stories are supported by research conducted in collaboration with the Wisconsin Initiative on Climate Change Impacts. Participants will learn about what went into developing the videos and how they have been used to impact climate awareness and action. This session will explore interest in developing a similar project for Ohio, including potential themes, available research on climate impacts, funding sources, and how stories of a changing climate in Ohio might be similar or different from Wisconsin.
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<td>Bob Freitag</td>
<td>University of Washington</td>
<td>sharing and dissemination. It will also give participants an opportunity to link their organizations’ resources.</td>
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<td>Jim Schwab</td>
<td>American Planning Association</td>
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<td>Katie Kahl, Kim Hall, &amp; Rachael Franks Taylor</td>
<td>The Nature Conservancy</td>
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<td>10:00am</td>
<td>Climate Smart Habitat Restoration</td>
<td>Examining Infrastructure Case Studies</td>
<td>Economic Assessment of Flooding Impacts and Economics of Green Infrastructure</td>
<td>Virtual Session: Climate Masters Program, University of Oregon Climate Leadership Initiative</td>
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<td>11:00am</td>
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<td>The NOAA Coastal Services Center will share methods for assessing the economic impacts of flooding and identifying green infrastructure strategies to help reduce those impacts. The session will draw from a project in progress in Toledo and Duluth, MN. Participants will have the opportunity to share their technical assistance and capacity building needs for these types of assessments, and the discussion will help to inform CSC’s steps forward. The Coastal Services Center is conducting this effort in</td>
<td>Enjoy this virtual session on the University of Oregon’s Climate™ Master Program, a set of model programs that provide cost-effective, actionable education and training to help individuals, businesses, and youth reduce greenhouse gas emissions and prepare for local climate impacts. These programs are designed to be easily replicable and to motivate behavioral change among participants and their organizations and communities.</td>
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Sarah Mazze, The Resource
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| Lake Erie examples. It will conclude with a brief discussion of how restoration can help urban communities adapt and introduce an upcoming nature-based solutions to urban adaptation tool kit. |
| Melinda Koslow, National Wildlife Federation |
| James Cole, The Nature Conservancy |
| decisions. We will also explore ideas for new case studies and local stories that look at infrastructure issues, natural hazards and climate change. |
| Roger Gauthier, Roger L. Gauthier Consulting |
| Gene Clark, University of Wisconsin Sea Grant Institute |
| partnership with Cities of Toledo and Duluth, Eastern Research Group, and the Association of State Floodplain Managers. |
| Lori Cary-Kothera, Jeff Adkins, and Tashya Allen - NOAA Coastal Services Center |
| Innovation Group (TRIG) |