



November 2017 Update



Next Month!

Climate Change in America's National Parks Webinar Series

Thursday, November 9, 2pm EST | 11am PST

**Climate adaptation planning for historic districts: A support tool
for evaluating optimal portfolio
decisions**

Erin Seekamp

Associate Professor, Department of Parks, Recreation and Tourism
Management, NC State University

Register here: <https://attendee.gotowebinar.com/register/5275100933537835777>

This webinar will provide an overview of a decision support tool designed to assist in adaptation planning for one specific set of cultural resources: buildings within historic districts. The decision support tool presented is part of an ongoing collaboration between researchers at NC State University, USGS and the DOI Southeast Climate Science Center, and the National Park Service. The tool, which still is in a beta version, is one product of a pilot study at Cape Lookout National



Seashore (CALO). The tool enables visualizations of the optimal adaptation actions that could be applied to a set structures annually during a 30-year planning period. The webinar will include the ability for participants to learn more about:

- (a) the co-production of knowledge approach used to develop and refine the decision support tool;
- (b) the measurement framework developed to account for the relative historic value (i.e., historical significance and use potential) that enables gradation between otherwise equivalent buildings;
- (c) the decision rules that enable the model to dynamically respond to how adaptation actions can decrease vulnerability while enhancing or detracting from a building's historic value; and,
- (d) interpretations of some initial outputs from the pilot study using a representative subset of 17 buildings within two different historic districts at CALO: Portsmouth Village and Cape Lookout Village.

Erin Seekamp is an Associate Professor in the Department of Parks, Recreation and Tourism Management (PRTM) at North Carolina State University. Her research focuses on capacity building for conservation, integrating social-psychological theoretical perspectives into the human dimensions of natural resources field.

Introducing Ryan Roberts



Ryan Roberts recently joined the Climate Change Response Program (CCRP) on a Geoscientists-in-the-Parks appointment. During his time with the program, Ryan will develop and conduct a comprehensive evaluation of CCRP internship programs to date. Ryan received his undergraduate degree from the State University of New York where he studied conservation biology. He has since obtained a master's degree in Conservation

Leadership from Colorado State University, where he is currently working toward his PhD in Human Dimensions of Natural Resources. Ryan's primary research interests entail market-based conservation initiatives, and he would specifically like to focus on carbon and climate change in his future career.

Free Unlimited On Demand Climate Change Training

The Climate Change Response Program invites interested NPS employees, partners, and volunteers to enjoy unlimited access to the Association of Climate Change Officers (ACCO) [library of on-demand and live online training](#) FREE for one full year. This opportunity affords participants unparalleled flexibility to customize training according to their needs and work around busy schedules.

Availability is limited and will be awarded strictly on a first-come, first serve basis. For

instructions on how to register for this opportunity, please contact Larry Perez at larry_perez@nps.gov .

USFWS Climate Academy



This 8 week online course offered by the U.S. Fish and Wildlife Service is designed to cover the fundamentals of climate science, provide an overview of tools and resources for climate adaptation, and increase climate literacy and communication skills. Beginning in January 2018, a webinar session with leading experts in these topics will be held every week for 8 weeks, for a total of 8 sessions. Pre-webinar assignments, class resources and discussion forums will be accessed through Moodle, a distance learning platform (no special software required). Course participants will then develop a final product addressing climate change in their management of natural resources.

Tuition is waived for NPS participants. Learn more at <https://training.fws.gov/nctcweb/catalog/CourseDetail.aspx?CourseCodeLong=FWS-ALC3193>

FPL Project Proposal Deadline Approaching

One week remains to submit 2018 internship project proposals under the Future Park Leaders of Emerging Change (FPL) program! Proposals will be accepted through 5:00 PM ET Monday, October 30, 2017 . Proposed FPL internship projects must focus on emergent management issues arising from global drivers of environmental change. FPL projects may address needs associated with the management of natural, cultural, or historic resources, park infrastructure, visitor use, or interpretation and education efforts in a future of novel, rapid, and/or large landscape change. [Learn more about applying for an intern.](#)



Spotlight on Interns: Future Park Leaders of Emerging Change

Glacier Surveys in Olympic National Park

by Justin Pflug, University of Washington

The Olympic glaciers, centered in Olympic National Park of Northwest Washington, serve as vital late-summer sources of water for a number of sensitive ecosystems and species. These thin and relatively small glaciers reside in a low-latitude, low-elevation, precipitation-dominant, and temperate maritime climate. In addition, the snow cover in this region is highly sensitive as it tends to form within a few degrees of the freezing point. Slight increases in temperature can cause this precipitation to fall in the form of rain, leaving glaciers snow-free and available to melt for longer periods in the summer. The winter of 2015 was representative of Washington climate-change scenarios with a 2° C increase in temperature. This provided an ideal opportunity to analyze glacier distribution, glacier melt, and the downstream contribution from Olympic glaciers impacted by climate change. [Read more to learn about Justin's project results.](#)



Editor's Note: Through participation in the FPL program, alumni are afforded two years of noncompetitive hiring status under the DOI Direct Hire Authority. Those with DHA status are afforded two years of eligibility after graduation to be noncompetitively placed in positions for which they are qualified in the NPS and most other DOI agencies. For a listing of alumni currently available under DHA, please visit the [NRSS Internships alumni page](#).



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Want to submit an article? Contact matt_holly@nps.gov to learn more.