

Symposium Description:

Ecosystems throughout North America evolved with wildfire. Today, prescribed fire is an important tool for managing habitat by maintaining open, early seral landscapes. Fire can greatly improve the value of habitat for insects and other invertebrates, often increasing species abundance and diversity, however, fire (both natural and prescribed) in the wrong place, at the wrong scale, or at the wrong time can have the opposite effect - negatively impacting invertebrate communities and their habitat.

Life from the Ashes will explore the positive and negative impacts of prescribed and natural fire related to insects and other invertebrates in landscapes across North America. The symposium will provide research and practical insights to inform natural areas professionals as they manage landscapes with fire.

This program is provided in a collaboration between the **Natural Areas Association (NAA)** and the **Xerces Society for Invertebrate Conservation (Xerces)**. NAA serves those dedicated to the management and restoration of biologically important natural areas in North America. Xerces is an international nonprofit organization that protects the natural world through the conservation of invertebrates and their habitats. Protecting nature requires reliable science to inform practices on-the-ground and a network of stewards who work tirelessly to protect, manage, and restore land and water biodiversity.



Early bird rates: July 12 - September 8, 2021.

Early bird, non-member: \$49

Early bird, NAA member: \$29

Full price, non-member: \$69

Full price, NAA member: \$49

Agenda

Time	Session Title
11:00am-11:30am	Opening Remarks, Announcement of the 2020 and 2021 Fell & Becker Awards
	Lisa Smith, Executive Director of the Natural Areas Association
11:30am-12:15pm	Life from the Ashes: Exploring the Impact of Prescribed Fire & Natural Fire on Insects and Other Invertebrates
	Scott Hoffman Black, Executive Director of the Xerces Society for Invertebrate Conservation
12:15pm-12:35pm	Break
12:35pm-1:05pm	Predicting the Resistance of Plant-Pollinator Assemblages to Fire
	Molly Martin, Conservation Biologist, Xerces Society for Invertebrate Conservation
1:05pm-1:35pm	The Impact of Western Fires on Bumble Bees
	John Mola, Ph.D., Research Ecologist, Fort Collins Science Center, USGS
1:35pm-2:05pm	<u>The Impact of Prescribed Burning on Native Bee Communities</u> (Hymenoptera: Apoidea: Anthophila) in Longleaf Pine Savannas in the North Carolina Sandhills
	 Elsa Youngsteadt, Ph.D., Assistant Professor of Applied Ecology, North Carolina State University, Youngsteadt Lab
	• Clyde Sorenson , Alumni Association Distinguished Undergraduate Professor, Entomology and Plant Pathology, North Carolina State University
2:05pm-2:25pm	Break
2:25pm-2:55pm	 Prescribed Fire Effects on Rangeland Dung Beetles (Coleoptera: Scarabaeinae, Aphodiinae) in the Southern Great Plains Robin M. Verble, Ph.D., Director, Ozark Research Field Station, Associate Professor of Biological Sciences, Missouri University of Science and Technology
2:55pm-3:25pm	Ant Community, Diversity, and Seed Interactions in Longleaf Pine Forest Managed with Frequent Fire
	Rachel Atchison, Biological Science Technician, USDA ARS, Imported Fire Ant and Household Insects Research
3:25pm-3:55pm	<u>Using Prescribed Fire and Grazing to Manage for Biodiversity in</u> <u>the Great Plains</u>
	Ray Moranz, Grazing Lands Pollinator Ecologist, Partner Biologist, NRCS Central National Technology Support Center
3:55pm-4:15pm	Break
4:15pm-4:55pm	Closing Thoughts and Discussion
	 Join Scott Hoffman Black as he facilitates an open discussion with conference presenters to highlight important concepts identified throughout the event. Audience members are encouraged to submit questions in advance or during the live stream session.
4:55pm-5:00pm	Conclusion
5:00pm-5:30pm	Social Hour

ANNOUNCING STEWARDSHIP SHORTS!

Six STEWARDSHIP SHORTS will be included in the *Virtual* Conference agenda and will play in between live virtual sessions. All STEWARDSHIP SHORTS will be made available for on-demand viewing on the conference website during and after the event. Check out the **STEWARDSHIP SHORT GUIDELINES** for more details.

STEWARDSHIP SHORTS are:

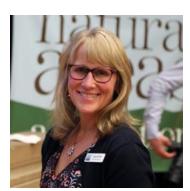
- Brief 3-to-5-minute, pre-recorded video presentations that describe a project, methodology, best practice, or challenge related to a natural area(s) and can focus on any area of conservation ecology.
- An opportunity to share your work so that you can become a resource to your colleagues, and they can become a resource to you.
- Short vlog experiences that last no more than five minutes. Recording the video in the field is highly encouraged.

Deadline for upload is MONDAY, OCTOBER 4, 2021.



Updated: 8-27-21

Speakers and Abstracts



Lisa Smith

Executive Director Natural Areas Association

Opening Remarks, Announcement of the 2020 and 2021 Fell & Becker Awards



Scott Hoffman Black

Executive Director Xerces Society for Invertebrate Conservation

Life from the Ashes: Exploring the Impact of Prescribed Fire & Natural Fire on Insects and Other Invertebrates



<u>Molly Martin</u> Conservation Biologist Xerces Society for Invertebrate Conservation

Predicting the Resistance of Plant-Pollinator Assemblages to Fire



<u>John Mola, Ph.D.</u> Research Ecologist Fort Collins Science Center, USGS

The Impact of Western Fires on Bumble Bees



Elsa Youngsteadt, Ph.D.

Assistant Professor of Applied Ecology North Carolina State University

<u>The Impact of Prescribed Burning on Native Bee Communities</u> (Hymenoptera: Apoidea: Anthophila) in Longleaf Pine Savannas in the North Carolina Sandhills

Speakers and Abstracts



Clyde Sorenson

Alumni Association Distinguished Undergraduate Professor, Entomology and Plant Pathology North Carolina State University

<u>The Impact of Prescribed Burning on Native Bee Communities</u> (Hymenoptera: Apoidea: Anthophila) in Longleaf Pine Savannas in the North Carolina Sandhills

Robin Verble, Ph.D.

Director, Ozark Research Field Station, Associate Professor of Biological Sciences, Missouri University of Science and Technology

<u>Prescribed Fire Effects on Rangeland Dung Beetles (Coleoptera:</u> <u>Scarabaeinae, Aphodiinae) in the Southern Great Plains</u>

Rachel Atchison

Biological Science Technician, USDA ARS, Imported Fire Ant and Household Insects Research

<u>Ant Community, Diversity, and Seed Interactions in Longleaf Pine</u> <u>Forest Managed with Frequent Fire</u>



Ray Moranz

Grazing Lands Pollinator Ecologist, Partner Biologist, NRCS Central National Technology Support Center

<u>Using Prescribed Fire and Grazing to Manage for Biodiversity in</u> <u>the Great Plains</u>

