



natural
areas
ASSOCIATION

10.19.2021

virtual

2021 Natural Areas Conference

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

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.

[Register](#)

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

Tentative Agenda

| Time | Session Title |
|-----------------|--|
| 11:00am-11:30am | <p>Opening Remarks, Announcement of the 2020 and 2021 Fell & Becker Awards</p> <ul style="list-style-type: none"> • Lisa Smith, Executive Director of the Natural Areas Association |
| 11:30am-12:15pm | <p>Life from the Ashes: Exploring the Impact of Prescribed Fire & Natural Fire on Insects and Other Invertebrates</p> <ul style="list-style-type: none"> • Scott Hoffman Black, Executive Director of the Xerces Society for Invertebrate Conservation |
| 12:15pm-12:35pm | Break |
| 12:35pm-1:05pm | <p>Predicting the Resistance of Plant-Pollinator Assemblages to Fire</p> <ul style="list-style-type: none"> • Molly Martin, Bee City Coordinator, Xerces Society for Invertebrate Conservation |
| 1:05pm-1:35pm | <p>The Impact of Western Fires on Bumble Bees</p> <ul style="list-style-type: none"> • John Mola, Ph.D., Research Ecologist, Fort Collins Science Center, USGS |
| 1:35pm-2:05pm | <p>The Impact of Prescribed Burning on Native Bee Communities (Hymenoptera: Apoidea: Anthophila) in Longleaf Pine Savannas in the North Carolina Sandhills</p> <ul style="list-style-type: none"> • 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 | <p>Using Prescribed Fire and Grazing to Manage for Biodiversity in the Great Plains</p> <ul style="list-style-type: none"> • Ray Moranz, Grazing Lands Pollinator Ecologist, Partner Biologist, NRCS Central National Technology Support Center |
| 2:55pm-3:25pm | <p>Using Traditional Ecological Knowledge to Guide Fire Management - Intertribal Agriculture Council (IAC)</p> |
| 3:25pm-3:55pm | <p>Lessons from Years of Prescribed Wildfire Burning in Nebraska - Chris Helzer, the Nature Conservancy</p> |
| 3:55pm-4:15pm | Break |
| 4:15pm-4:50pm | Closing Plenary Panel |
| 4:50pm-5:00pm | Conclusion |
| 5:00pm-5:30pm | Social Hour |

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*



Molly Martin

Bee City USA Coordinator
Xerces Society for Invertebrate Conservation

*Predicting the Resistance of Plant-Pollinator
Assemblages to Fire*



John Mola, Ph.D.

Research Ecologist
Fort Collins Science Center, USGS

The Impact of Western Fires on Bumble Bees

Speakers and Abstracts



Elsa Youngsteadt, Ph.D.

Assistant Professor of Applied Ecology
North Carolina State University

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



Clyde Sorenson

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

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



Ray Moranz, Ph.D.

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

Using Prescribed Fire and Grazing to Manage for Biodiversity in the Great Plains