

Conference Program & Schedule of Activities

34th Annual Natural Areas Conference

October 9–12, 2007 ¼ Cleveland, Ohio



Some Assembly Required:
Preserving Nature in a Fragmented Landscape

n e F g
t e t i e
i N s n s m
L l r b A m c
S a e n p e r
r u a d : s R
q a e p e n
a r u s d e y a r
m o i e d e

Welcome to Cleveland

The Great State of Ohio is pleased to host the 34th Annual Natural Areas Conference on its North Coast.

The theme of this year's conference is pertinent to conservation professionals regardless of whether they work in urban, suburban or rural areas. Development pressures are having a significant impact on natural areas everywhere and the Cleveland area is no exception. As with most large cities, urban sprawl is expanding here at an alarming rate. We are challenged to manage land that has been fragmented, overused, infiltrated by invasive species or are adjacent to parcels where landowners are uninformed as to the workings of natural ecosystems.

Fortunately, we have several factors working in our favor. Foresighted individuals from the mid-19th and early 20th centuries set aside significant tracts of land within the region to remain as natural areas for future generations to enjoy. The Cleveland Metroparks (nicknamed the *Emerald Necklace*), the Holden Arboretum, Mentor Marsh State Nature Preserve and large tracts of land on Kelleys Island are just a few of these special areas. More recently, local conservation organizations and agencies have come together to coordinate land protection strategies and work to sizably increase our protected natural areas.

We hope you find this week's programs, field trips, poster presentations, auction items and social events valuable and informative. They are the result of countless hours of planning on the part of the Conference Committee. Enjoy your time in Cleveland.

Renee Boronka
Conference Coordinator

Donors

Host

Natural Areas Association

Co-host

Cleveland Museum of Natural History

Underwriters (\$5,000+)

Cleveland Museum of Natural History

Cuyahoga Valley National Park/National Park Service

Davey Resource Group/Ohio Wetlands Foundation

The Holden Arboretum

Kent H. Smith Charitable Trust

Metroparks, Serving Summit County

The Nature Conservancy

U.S. Environmental Protection Agency, Great Lakes National Program Office

U.S. Forest Service

Sponsors (\$1,000-\$4,999)

Appalachian Ohio Alliance (in-kind)

Bureau of Land Management

Case Western Reserve University

Cleveland Metroparks (in-kind)

Columbus & Franklin County Metroparks

Crowley's Vegetation Management

Five Rivers Metroparks

Geauga County Park District

Grand River Partners, Inc.

Lake Metroparks

Mill Creek Park District

NPS National Natural Landmarks

Northeast Ohio Regional Sewer District

The Ohio State University-Ohio Agricultural & Research Development Center

Ohio Division of Natural Areas & Preserves

Ohio Division of Wildlife

The Ohio Lepidopterists

The Sierra Club, Cleveland Chapter

Toledo Area Metroparks

The Trout Club of the Cleveland Museum of Natural History

Western Pennsylvania Conservancy

Western Reserve Land Conservancy

Supporters (\$500-\$999)

Cleveland Metroparks Zoo/Cleveland Zoological Society

Partners (\$100-\$499)

Mr. and Mrs. Michael Stone

Trust for Public Land

General Information

Questions?

Stop in at the registration counter, or look for attendees wearing blue REGISTRATION ribbons. Urgent messages for attendees will be posted at the registration counter.

Name badges

Please wear your name badge to all conference-sponsored events. It is your *ticket* to access symposia, sessions, breaks, socials, and the banquet. At the conclusion of the conference, please recycle your plastic name badge holder in the box at the registration counter.

Speaker preparation room

Two laptops and powerpoint projectors are available in the Huron Room during conference hours. Please sign up for time slots on the board outside the room.

Meals & dining out

Your full conference registration fee provides continental breakfast on Wednesday and Thursday, socials on Tuesday and Wednesday evenings, and a field trip box lunch and the annual banquet on Thursday. All other meals are on your own. Cleveland has many wonderful restaurants located within walking distance of the Marriott. Refer to the restaurant list and downtown maps in your conference folder for a wide selection of dining establishments.

Auction

An exotic array of silent and live auction items will be displayed in Salon E for your bidding pleasure beginning Tuesday morning. Bidding will close on silent auction items during Thursday evening's banquet, just prior to the live auction. Winning bidders must pay for their items on Thursday night. Arrangements can be made for shipping through the Museum. All auction proceeds support the conference and the work of the Natural Areas Association. If you've brought

items to donate to the auction, please drop them off at the registration counter. **Items must be dropped off by 1:30 p.m. on Wednesday.**

Field Trips

Look for a ticket in your nametag pouch showing your pre-registered field trip(s). If you have any questions regarding your scheduled trip, or would like to change your trip, visit the field trip table in the North Foyer from 8:00 a.m. on Tuesday through 1:30 p.m. on Wednesday. **Absolutely no changes can be made after 1:30 p.m. on Wednesday.**

Conference T-shirts

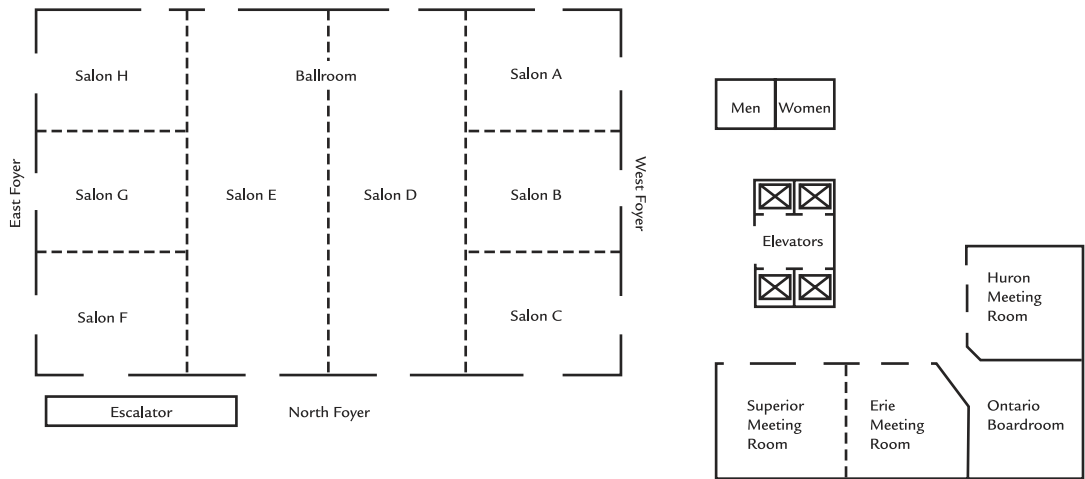
Stop in at the Natural Areas Association booth in the Exhibits Hall to pick up your official 34th Annual Natural Areas Conference T-shirt, before they sell out. These 100% organic cotton shirts, printed with water-based ink and fair trade practices, are long-lasting. They make a great souvenir. Get yours now!

The conference T-shirts are slightly more expensive this year, and for good reason: they are a 100% sustainably produced shirt, and a higher quality product that will *outlive* normal screen-printed products. You get a terrific *T* that also reflects our social and environmental values.

During your free time...refer to the insert in your conference folder
What's going on in and around Cleveland? for things to do before, during, and after the conference.

Marriott Meeting Facilities

All conference programs and activities, unless otherwise noted, are located at the Cleveland Marriott at Key Center.



Agenda-at-a-Glance

Tuesday, October 9

8:00 a.m. – 8:00 p.m.	Registration
9:00 a.m. – 7:00 p.m.	Exhibits (Salon D)
9:00 a.m. – 7:00 p.m.	Silent Auction (Salons E, F, G, H)
1:00 p.m. – 7:00 p.m.	Poster Presentations (East Foyer)
1:00 p.m. – 1:30 p.m.	Welcome Addresses (Salons E, F, G, H)
1:30 p.m. – 4:00 p.m.	Plenary Addresses (Salons E, F, G, H)
4:00 p.m. – 5:00 p.m.	Keynote Address (Salons E, F, G, H)
5:00 p.m. – 6:00 p.m.	NAA Sponsors/Council of Advisors Reception <i>by invitation only</i> (Salon C)
5:00 p.m. – 7:00 p.m.	Opening Reception (East Foyer)



Wednesday, October 10

7:00 a.m. – 7:00 p.m.	Registration
7:00 a.m.	Breakfast (Exhibits Hall)
8:30 a.m. – 10:00 a.m.	Morning Sessions (Salons A-H)
10:00 a.m. – 10:30 a.m.	Break (Auction Hall)
10:30 a.m. – 12:00 p.m.	Late Morning Sessions (Salons A-H)
12:00 p.m. – 1:30 p.m.	Lunch (on your own)
1:30 p.m. – 3:00 p.m.	Afternoon Sessions (Salons A-H)
3:00 p.m. – 3:30 p.m.	Break (Exhibits Hall)
3:30 p.m. – 5:00 p.m.	Late Afternoon Sessions (Salons A-H)
5:00 p.m. – 7:00 p.m.	Poster Session Reception (East Foyer)
5:00 p.m. – 7:00 p.m.	Land Trust Social (Salon F)

Thursday, October 11

6:15 a.m. – 10:00 a.m.	Registration
6:15 a.m. – 9:30 a.m.	Grab-n-Go Breakfast, Pick up box lunch (West Foyer)
6:30 a.m.	Buses begin departing for field trips
6:00 p.m. – 10:00 p.m.	Annual Banquet, Awards Ceremony & Auction at Cleveland Museum of Natural History

Friday, October 12

7:30 – 9:00 a.m.	Registration
7:30 a.m. – 8:45 a.m.	Natural Areas Association Annual Members' Meeting & Breakfast (Salon C)
9:00 a.m. – 10:30 a.m.	Morning sessions (Salons A-H)
10:30 a.m. – 11:00 a.m.	Break (Exhibits Hall)
11:00 a.m. – 12:30 p.m.	Late Morning Sessions (Salons A-H)
12:30 p.m. – 2:00 p.m.	Lunch (on your own)
2:00 p.m. – 4:00 p.m.	Afternoon sessions (Salons A-H)
2:00 p.m. – 2:30 p.m.	Student Awards Presentation (Salon H)
4:00 p.m.	Conference Adjourns

Schedule of Special Events

Tuesday, October 9

State Natural Areas Program Roundtable

9 AM – 12:00 PM · SALON C

The State Natural Areas Program Roundtable, sponsored by the NAA, brings state natural areas professionals together at the annual conference, and via quarterly conference calls. The Roundtable provides an interactive forum for information exchange and updates, including guidance on general planning and management issues. Today's agenda developed as a result of participants' discussions over the past year. Information will be shared on the initiative to increase NAA's outreach to state natural area programs, and the current State NA Programs Website reports (www.naturalarea.org/programs.aspx). State representatives will discuss challenges, success stories and innovations occurring in their home states. Roundtable participants will also frame discussion topics for the upcoming year. Host: Natural Areas Association.

Workshop: Stop Wasting Time on Invasives—Plan Your Way to Success

9:00 AM – 11:00 AM · SALON A

One of the great challenges land managers face is how to best use the limited resources available for invasive plant management. This workshop is aimed at helping land managers realistically assess the invasive plant problems at a given site and come up with an effective plan to address them. Based on simple criteria for species-based and site-based prioritization, this workshop gives you the tools to determine for a given preserve which invasive plant species and which particular infestations should be attacked first. Host Ellen Jacquart, MIPN President.

NAA International Program Committee Meeting

10:15 AM – 12:15 PM · SALON B

Discuss past and future International Workshops, the NAC International Scholarship Program and other International Program Committee business. Chairs: Ruark Cleary and Abi Rome.

Midwest Invasive Plant Network Board of Directors Meeting

11:00 AM – 1:00 PM · SALON A

The MIPN Board meeting is by invitation only, however,

everyone is invited to learn about MIPN's programs and projects at their annual meeting on Wednesday at 12:00 p.m. in Salons A & B (lunch provided).

Welcome Addresses

1:00 PM · SALONS E, F, G, H

Sean Logan, Director, Ohio Department of Natural Resources

Kim Herman, President, Natural Areas Association

Plenary Addresses

1:30 PM – 2:15 PM · SALONS E, F, G, H

Ohio's Natural Heritage. **Guy Denny**, Retired Chief of the Ohio Division of Natural Areas & Preserves.

2:15 PM – 3:00 PM · SALONS E, F, G, H

Will global climate change break the restoration camel's back? Thoughts from the hurricane-ravaged third coast. **Dr. William Platt**, Professor of Ecology, Louisiana State University.

3:00 PM – 3:15 PM · EAST FOYER

Break

3:15 PM – 4:00 PM · SALONS E, F, G, H

Cascading consequences of introduced and invasive species on imperiled invertebrates. **Dr. David Wagner**, Professor of Ecology and Evolutionary Biology, University of Connecticut.

Keynote Address

4:00 PM – 5:00 PM · SALONS E, F, G, H

The different roles of native and introduced plants in structuring aquatic and forest communities. **Dr. Bernd Blossey**, Associate Professor of Natural Resources, Cornell University.

Opening Reception

5:00 PM – 7:00 PM · EAST FOYER

Immediately following the Keynote address, join your colleagues for appetizers, socializing and entertainment by local musician **Alex Bevan**. Cash bar available.

Word Search

Find these eight
Ohio Wildflowers.

BLOODROOT
MAYAPPLE
TURTLEHEAD
BONESET
STARFLOWER
WINGSTEM
IRONWEED
TRILLIUM

J K K D B R Q O N M
T O O R D O O L B E
D A E H E L T R U T
F N V M J E K J J S
T E S E N O B M X G
X Q J M U O Z S V N
I R O N W E E D K I
E L P P A Y A M T W
T R I L L I U M O A
S T A R F L O W E R

Schedule of Special Events (continued)



Wednesday, October 10

Symposium-Invasive Species & Forest Health: Beyond the Obvious

8:30 AM – 12:00 PM · SALONS A & B

Restore, adapt, or ignore? How can land managers and policymakers prepare for and manage the cascading ecological consequences of invasive species? Addressing forest invasions from insect pests to plants, pigs to pathogens, the speakers will reveal the common threads and differences in impact, management, and prevention of complex invasions. Hosts Faith Campbell, Senior Policy Advisor for the Forest Health Initiative, The Nature Conservancy & Vicki Nuzzo, Consultant, Natural Area Consultants.

National Park Service Midwest Region Employees Meeting- Science Committee Listening Session

8:30 AM – 10:00 AM · ONTARIO ROOM

All NPS employees are encouraged to participate. Help shape the future of science within the National Park Service. Open to all.

Symposium-Exploring natural fire regimes and the use of prescribed fire in fragmented, pyrogenic ecosystems

8:30 AM – 12:00 PM · SALON G

Natural fire regimes that are intrinsic to the functioning of pyrogenic ecosystems worldwide have been anthropogenically altered, especially in terms of frequency, seasonal timing, intensity, and extent. As a result, such alterations of fire regimes have led to reductions in biodiversity. Successful restoration and management of biodiversity in fire-dependent ecosystems often depend on burn prescriptions that mimic at least some aspect of a natural fire regime. This symposium will attempt to (1) explore the scientific basis for the use of fire as a restoration and management tool in several different ecosystems, and (2) recommend new research directions that will enhance our understanding of natural fire regimes. Host Dr. Paul Drewa, Case Western Reserve University.

National Natural Landmarks Session

10:30 PM – 12:00 PM · ERIE/SUPERIOR ROOMS

Come celebrate the 40th anniversary of National Natural Landmark designation. In 1967, 10 sites in Ohio received National Natural Landmark (NNL) designation for their biological or geological natural features. Can you name them? Over 570 sites have been designated across the USA and its territories since the NNL Program began in 1962. NNLs illustrate geologic stories spanning millions of years and many natural phenomena, and ecologic stories about diversity, survival, and change in natural systems. In this session we will hear from the owners and land managers of Ohio's 10 NNL sites and recognize and celebrate their 40th anniversary. Host Janet Eckhoff, Regional NNL Coordinator, NPS.

Midwest Invasive Plant Network Annual Meeting

12:00 PM – 1:30 PM · SALONS A & B

MIPN tackles invasive plants on a regional scale by connecting professionals and the public across numerous sectors. 2007 was an especially productive year, with new publications,

trainings, and partnerships. Come get informed, then get involved. All are invited. Fabulous door prizes and lunch will be provided.

Special Session—Invasive Plants: the Art, the Science, and the Future

1:30 PM – 5:00 PM · SALONS A & B

Six invited talks will explore current issues and future directions for invasive plant issues. Topics to be discussed include early detection and rapid response, invasive plant/pollinator interactions, garlic mustard biological control, research and nursery industry partnerships, and Cooperative Weed Management Areas. Hosts Ohio Invasive Plants Council & Midwest Invasive Plant Network.

Poster Session & Reception

5:00 PM – 7:00 PM · EAST FOYER

Immediately following the last session, join your colleagues to meet the poster authors, while enjoying appetizers and entertainment by local musicians flutist Linda White and pianist Lisa Rainsong. Cash bar available.

Land Trust Social

5:00 PM – 7:00 PM · SALON F

Come meet other natural areas folks who are interested in land trusts, as well as land trust staff and volunteers from Ohio and across the nation. Meet Renee Kivikko, the National Director of Education for the Land Trust Alliance, who also serves on the NAA Board of Directors. Renee will briefly discuss partnership opportunities between NAA organizations and land trusts. In addition, employees and trustees from local land trusts in the greater Cleveland region will be present. Expand your social network within the conservation field and learn more about how land trusts work.

Integrating Invasive Plant Species Data in the Midwest: Solutions for Data Management and Sharing

7:00 PM – 9:00 PM · SALON C

Join Alycia Crall from the National Institute for Invasive Species Science (NIISS) and members of the Midwest Invasive Plant Network (MIPN) Data Management Committee to discuss how your invasive plant data can be shared with other managers and researchers via the NIISS online database and mapping system (<http://www.niiss.org/>). Have your questions about the online data sharing system answered, provide feedback on MIPN's role in coordinating data sharing, learn about the NIISS data sharing agreement, and find out about the next steps that agencies and organizations can take to get involved in this important data sharing initiative. Those interested in participating in this discussion may also want to attend the Wednesday morning presentation which will cover the basics about the NIISS online database system. Hosts MIPN and the USGS NIISS.

Friday, October 12

Natural Areas Association Annual Membership Meeting & Breakfast

7:30 AM - 8:45 AM · SALON C

All NAA members (if you receive the Natural Areas Journal, you're a member!) are invited and encouraged to attend the annual Membership meeting. Meet fellow NAA members, learn more about the NAA and how it works, share your ideas, plus vote on your board and officers. A yummy complimentary continental breakfast will be served.

State Natural Areas Special Session

9:00 AM - 12:30 PM · ERIE/SUPERIOR ROOMS

Responding to the State Roundtable participant requests, the NAA has organized this session on state natural area management plans. The following states will present an overview of their approach to development of natural area management plans: Washington (Curt Pavola), Ohio (Melissa Moser), Michigan (Kim Herman), Indiana (John Bacone), Virginia (Rick Meyers), Arkansas (Chris Colclasure) and Arizona (Joanne Roberts). Examples of each state's management plan format will be provided. Participants will take part in panel discussion addressing such topics as public involvement, implementation, and monitoring procedures as well as encouraging open discussions and questions from special session attendees. Host Karen Smith, Director, Arkansas Natural Heritage Commission.

Symposium-Deer Management: Lessons Learned in Ohio

9:00 AM - 12:30 PM · SALON A

Managing white-tailed deer populations has or will soon become an integral part of preserving, conserving and managing natural areas. Managing white-tailed deer, especially in the urban interface, may not only be a biological question of carrying capacities and species management but can also be guided by personal values of the public, special interest, budget constraints and agency manpower to deal with the issue. This session will discuss a host of deer management strategy issues from applications of birth-control, culling, and public hunting, to the administrative viewpoint of

agency impacts related to workforces, budgets and operations. The Symposium will conclude with a question and answer roundtable. Host John Watts, Columbus & Franklin County Metroparks.

Workshop-Land Trusts & Land Protection

9:00 AM - 4:00 PM · SALON C

This workshop is an all day primer on the work of land trusts. There are approximately 1,700 land trusts operating in the United States of America today. The vast majority of these land trusts were founded after 1981 when the United States Congress passed the modern conservation easement statute. Land trusts and natural areas organizations are often perfect partners, and during this course we will explore not only how land trusts work but how natural areas practitioners can effectively partner with land trusts. The course will be divided into three sections: Identify, Protect, and Steward. Senior land trust practitioners will teach each section, which will range from an overview of strategic conservation planning, to landowner cultivation, to closing deals, to annual monitoring and enforcement of conservation easements. There will be ample time for questions, and we will conclude the course with an open ended discussion about partnership opportunities. Host Rich Cochran, President and CEO, Western Reserve Land Conservancy.

National Association of Exotic Pest Plant Councils (NA-EPPC) Meeting

11:00 AM - 12:30 PM · ONTARIO ROOM

Plan to discuss upcoming initiatives, including the NA-EPPC/NAA 2008 Natural Areas Conference.

Student Awards Presentation

2:00 PM - 2:30 PM · SALON H

Conservation depends on the countless aspiring professionals who hone their skills through the Natural Areas Association. Join the NAA Awards Committee to recognize the winners of the 2007 Student Presentation Competition, then stay for a session about involving students in conservation.

Scrambled

Unscramble each of the clue words about Ohio Wildlife. Take the letters that appear in the circles and unscramble them for the final message below.

--	--	--	--	--	--	--	--	--	--

VEBREA

○					
---	--	--	--	--	--

WEMODA VEOL

								○		
--	--	--	--	--	--	--	--	---	--	--

BOTBAC

			○		
--	--	--	---	--	--

RUKMSAT

			○			
--	--	--	---	--	--	--

WOBRN ABT

						○	○		
--	--	--	--	--	--	---	---	--	--

REGDAB

				○	
--	--	--	--	---	--

RAYG XOF

		○							
--	--	---	--	--	--	--	--	--	--

REVIR TORTE

										○
--	--	--	--	--	--	--	--	--	--	---

Schedule of Presentations

Room	Salons A & B	Salon C	Salon F
8:00	Breakfast	Breakfast	Breakfast
Topic	SYMPOSIUM Invasive Species & Forest Health: Beyond the Obvious	Rare & Single Species Management	Invasive Plant Management
Time	<i>Hosts: Faith Campbell & Victoria Nuzzo</i>	<i>Moderator: Thomas Meyer</i>	<i>Moderator: Ron Heibert</i>
8:30	Which came first - the worm or the weed? Nuzzo (5)	Fragmentation in time and in space: microclimate and decline of relict paper birch in the Niobrara Valley, Nebraska. Stroh (17)	Best management practices to manage Canada thistle in native prairies. Becker (29)
9:00	Effects of beech bark disease on forest health. Storer (6)	Movement and ecology of the eastern massasauga rattlesnake (<i>Sistrurus catenatus catenatus</i>). Kowalski (18)	Chemical control of Japanese spiraea (<i>Spiraea japonica</i>) in Big South Fork N.R.R.A. Wellman (30)
9:30	Evolution in a forest pest control program: the emerald ash borer. Mastro (7)	Assessing viability and identifying critical environmental variables and genetic structure of a rare freshwater turtle. Harms (19)	Japanese barberry (<i>Berberis thunbergii</i> DC) control in southern New England. Ward (31)
10:00	Mid-morning Break	Mid-morning Break	Mid-morning Break
	SYMPOSIUM (continued) Invasive Species & Forest Health: Beyond the Obvious	Rare & Single Species Management	Invasive Plant Management
	<i>Hosts: Faith Campbell & Victoria Nuzzo</i>	<i>Moderator: Tom Arbour</i>	<i>Moderator: Jil Swearingen</i>
10:30	Effects of ash dieback due to introduced emerald ash borer on litter-dwelling arthropods in central hardwood forests. Gandhi (8)	The West Virginia white butterfly (<i>Pieris virginiensis</i>) in northeastern Ohio. Lehn (20)	Search and destroy: initiation of a management plan for <i>Ailanthus altissima</i> at the Edge of Appalachia Preserve, Ohio. Polgar (32)
11:00	Wild pigs: America's most successful large invasive species. Mayer (9)	Assessment of landscape effects on white-tailed deer (<i>Odocoileus virginianus</i>) impacts in Cuyahoga Valley National Park, Ohio. Skerl (21)	Integrating invasive species data: solutions for data collection, management, and dissemination. Crall (33)
11:30	Beyond the obvious: similarities and differences related to impacts, management and prevention. Campbell (10)	Eleven-year study of Blanding's turtle in created wetland and upland habitats. Kiviat (22)	A statewide approach to invasive species control in Virginia: managing <i>Phragmites australis</i> through partnerships and multi-tiered strategies. Clarke (34)
12:00	MIPN ANNUAL MEETING	Lunch	Lunch
	SPECIAL SESSION Invasive Plants: the Art, the Science, & the Future	Forest Ecosystems	Aquatic Ecosystems
	<i>Hosted by MIPN & OIPC</i>	<i>Moderator: Lisa Smith</i>	<i>Moderator: Gary Obermiller</i>
1:30	Develop an early detection program for invasive plants in your area: linking local efforts to the U.S. National Early Detection and Rapid Response System for Invasive Plants. Maurer (11)	A potential contribution of natural areas towards the improvement of a growth and yield model. Bragg (23)	Protecting freshwater mussels in Northeastern Ohio by the strategic identification and protection of natural areas. Krebs (35)
2:00	Invasive plant-pollinator interactions. Goodell (12)	Seed dispersal under American beech and sugar maple canopy adults in northeastern Ohio beech-maple forest. Albro (24)	Environmental influences on the composition and structure of macroinvertebrate assemblages in headwater streams of northeastern Ohio. Holmes (36)
2:30	<i>Ceutorhynchus</i> spp. as potential biological control agents of garlic mustard in the United States. Katovich (13)	Structure and dynamics of oak-dominated forests in the bluegrass region of southern Ohio. Petersen (25)	Assessment of primary headwater stream habitats in the Grand River and Chagrin River Basins, Ohio. Edgar (37)
3:00	Mid-afternoon Break	Mid-afternoon Break	Mid-afternoon Break
	SPECIAL SESSION (continued) Invasive Plants: the Art, the Science, & the Future	Seedbanks, Competition, & Plant Success	Aquatic Ecosystems
	<i>Hosted by MIPN & OIPC</i>	<i>Moderator: Steven Link</i>	<i>Moderator: Brian Parsons</i>
3:30	How researchers and the nursery industry can work together to prevent plant invasions. Culley (14)	Natural selection for resistance of <i>Impatiens capensis</i> to the competitive effects of the invasive plant <i>Alliaria petiolata</i> . Hurley (26)	Diatom community distribution along an environmental gradient. Scotese (38)
4:00	Reducing seed output and seed viability of cultivars: how much is enough to create a plant that will not be invasive? Knight, T (15)	Seedbank comparison of paired mature and immature mixed-mesophytic forests in West Virginia. Huebner (27)	Native Ohio brook trout and the development of a regional habitat suitability index. Pira (39)
4:30	Cooperative Weed Management Areas: expanding the successful western concept to the eastern states. Kearns (16)	Seed bank plants may require mycorrhizas to germinate after severe damage by hurricanes. Kandalepas (28)	A seasonal analytical approach to the study of macroinvertebrate communities of four streams in northeastern Ohio. Yasick (40)

Salon G	Salon H	Erie/Superior Rooms
Breakfast	Breakfast	
SYMPOSIUM Exploring natural fire regimes and the use of prescribed fire in fragmented, pyrogenic ecosystems <i>Host: Paul Drewa</i>	Conservation Planning <i>Moderator: Kim Herman</i>	
Fire regimes and responses of woody groundcover vegetation in barrens of southern Ohio. Drewa (41)	Use of multimetric ecological model to balance natural area protection and public use. Curtis (53)	OPEN
Fire history and forest regeneration in central Appalachian mixed oak forests. McCarthy (42)	Integrating freshwater and terrestrial perspectives in conservation planning: a scenario analysis. Amis (54)	
Studying lightning-caused fires to improve landscape management: a Great Smoky Mountains National Park case study. Cohen (43)	Functional delineation and restoration priority model for riparian areas of the Cuyahoga Valley National Park. Goebel (55)	
Mid-morning Break	Mid-morning Break	Mid-morning Break
SYMPOSIUM (continued) Exploring natural fire regimes and the use of prescribed fire in fragmented, pyrogenic ecosystems <i>Host: Paul Drewa</i>	Conservation Planning <i>Moderator: Tim Nigh</i>	National Natural Landmarks <i>Host: Janet Eckhoff</i>
Effects of single, growing-season mechanical and prescribed fire treatments in restoring inland pitch pine scrub oak barrens. Gifford (44)	Large-scale conservation planning using spatially-explicit multispecies models in Florida. Root (56)	Hear from the owners and land managers of the 10 Ohio National Natural Landmark sites and recognize and celebrate with them their 40th anniversary.
Using climate to deduce characteristics of natural fire regimes in southern Florida: implications for management. Slocum (45)	Sensitivity-value analysis: a spatially linked multi-criteria decision support tool for protected area planning and zonation applied in South African national parks. Holness (57)	
Synthesis and discussion. Drewa	Conservation planning in a rapidly suburbanizing county in southeastern Pennsylvania, USA. Tracey (58)	
Lunch	Lunch	
Soil Ecology & Processes <i>Moderator: Pene Speaks</i>	Conservation Partnerships <i>Moderator: Cathi Lehn</i>	
Interactions between invasive plants and soil biogeochemistry. Weintraub (47)	Building a bridge with F-Troop. Helfferich (59)	OPEN
The influence of soil environment on the diversity of ectomycorrhizal fungi in a mature beech-maple forest. Burke (48)	Five hundred thousand acres of dead weeds (give or take): Florida's upland invasive exotic plant management program. Cleary (60)	
Plethodontid salamanders in forest-floor food webs: do salamander feces subsidize bottom-up pathways? Lockhart (49)	Value of landscape initiatives, including biosphere reserves, for social-ecological systems in a fragmented landscape. Stanlivet (61)	
Mid-afternoon Break	Mid-afternoon Break	
Soil Ecology & Processes <i>Moderator: Pene Speaks</i>	Emerald Ash Borer <i>Moderator: Charlotte McCurdy</i>	
Decadal scale impacts of C4 grass reintroductions on soil carbon and nitrogen cycling in successional ecosystems. Mahaney (50)	Impact of emerald ash borer on forests within the Huron River watershed of southeastern Michigan. Smith, A (62)	OPEN
Effects of fire and fire surrogates on longterm soil quality and health at the continental scale: a meta-analytical approach. Boerner (51)	How fast will the trees die? A transition matrix model of ash (<i>Fraxinus</i> spp.) decline in forest stands infested by emerald ash borer (<i>Agrilus planipennis</i>). Knight, K (63)	
Spatial and temporal dynamics of <i>Lythrum salicaria</i> invasion in a peat-forming sedge fen. Smemo (52)	The emerald ash borer eradication protocol: environmental impacts and native plant community responses. Hausman (64)	

Poster Presentations

Join us for a Poster Session Reception in the East Foyer from 5:00 p.m. to 7:00 p.m. on Wednesday. Meet the poster authors, while enjoying appetizers, socializing and entertainment by local musicians, flutist **Linda White** and pianist **Lisa Rainsong**. Cash bar available.

Note: (#) refers to the presentation's assigned abstract number.

Resprouting demographics of tree regeneration in eastern oak forests: the role of fire and the persistence niche. **Matthew A. Albrecht** (presenter: Brian McCarthy) (139)

Invasive plant surveys in emerald ash borer-impacted forest communities. **John Cardina** (124)

Butterfly habitat restoration on reclaimed mined land of The Wilds in southeastern Ohio. **Nicole Cavender** (129)

Using tissue culture to recover the endangered northern wild monkshood (*Aconitum noveboracense*) in Ohio. **Susi Charls** (143)

Effect of deer and *Lonicera maackii* (Amur honeysuckle) removal method on restoration of understory plant communities. **Kendra A. Cipollini** (130)

Negative impacts and opportunities associated with the introduction or reintroduction of rare species into natural areas. **Paul Clarke** (140)

Genetic effects of urban and agricultural habitat fragmentation in the common yellow violet, *Viola pubescens*. **Theresa M. Culley** (127)

Role of coarse woody debris in determining terrestrial invertebrate communities in a headwater floodplain. **Maureen Drinkard** (131)

Composition, structure, and history of an old-growth beech-maple forest of the Lower Great Lakes region, USA. **Igor Drobyshev** (132)

Forest ecosystem restoration effects on decomposition and nutrient recycling in Appalachian mixed-oak forests, Ohio. **Carla Gai** (145)

Impacts of emerald ash borer-induced gap formation on forest communities. **Daniel A. Herms** (125)

Genetic variation and differentiation among populations of green ash trees (*Fraxinus pennsylvanica*) from nine metroparks from Toledo, Ohio. **Michelle Lang** (141)

Slowing relict sand dune succession to conserve native plants and insects using two vegetation management techniques in northeastern Ohio. **Patricia MacKeigan** (135)

A new biological control program for common tansy (*Tanacetum vulgare*) in Canada and the United States. **Alec McClay** (presenter: Monika Chandler) (136)

Restoration by mechanical reconstruction of the tree stratum: does it matter which trees are cut? **Jessica Miesel** (126)

Avian community responses to prescribed fire and tree harvest for ecological restoration. **Donald B. Miles** (122)

Effectiveness of EZ-Ject lance for control of bush honeysuckle and other woody species in Illinois woodland communities. **Stephen Miller** and **Philip Ochs** (137)

Efficacy of herbicidal control methods on common teasel (*Dipsacus fullonum*). **Thomas Reeve** (presenter: John Taylor) (138)

Assessing the impact of flooding on soil seed banks along headwater streams in the Cuyahoga Valley National Park, Ohio. **Marie Semko-Duncan** (144)

The urban heat island and vegetation phenology. **Daniel P. Shustack** (128)

Freshwater mussel species distribution and densities in the French Creek watershed. **Tamara Smith** (121)

Effectiveness of transplanting vs. seeding of *Lupinus perennis* in an oak savanna regeneration site. **Mark K. St. Mary** (presenter: Helen Michaels) (142)

Developing partnerships for collaborative fire management in the Onslow Bight landscape, North Carolina. **Christopher Szell** (123)

Characterization and comparison of wildlife and vegetation between wetland and agriculturally enclosed water depressions at Cypress Creek National Wildlife Refuge. **Jodi M. Vandermyde** and **Molly S. Hacker** (134)



River Jewelwing by Jennifer Brumfield

Field Trips & Workshops

Look for a ticket in your nametag pouch showing which field trip(s) you are registered to attend. If you have any questions regarding your scheduled trip, or would like to change your trip, visit the field trip table in the North Foyer from 8:00 a.m. on Tuesday through 1:30 p.m. on Wednesday. **Absolutely no changes can be made after 1:30 p.m. on Wednesday.**

Box lunches are only available for Thursday's field trips. Pick up your box lunch in the West Foyer from 6:30 a.m. to 9:30 a.m. on Thursday morning. A grab-n-go breakfast will also be available in the West Foyer.

Assemble in the Marriott lobby near the sign for your field trip. Board your designated bus through the doors of the lobby. Look for a corresponding sign in the front window of the bus. Several buses are scheduled to leave at the same time, so please be certain to board the appropriate bus.

Buses will depart promptly at their designated departure times (see below).

Tuesday, October 9

Trip #	Destination	Depart	Return
09-01	FQAI (Floristic Quality Assessment Index) <i>Note: Classroom portion 9:00 to 10:00 in Salon B. (122)</i>	10:00	1:00
11-19	ORAM (Ohio Rapid Assessment Method) <i>Note: Classroom portion 9:00 to 1:00 in Erie/Superior Rooms. Field trip is Thursday, October 11. (123)</i>		

Wednesday, October 10 (evening)

Trip #	Destination	Depart	Return
10-01	Bat Hibernacula	4:00	11:00
10-02	Cuyahoga Riverboat Cruise	5:15	8:30

Annual Banquet, Awards Ceremony & Auction

Cleveland Museum of Natural History 6:00 p.m.–10:00 p.m.

Please join us for the NAA's annual banquet and awards ceremony at the world-renowned Cleveland Museum of Natural History. The Museum is well-known for *Lucy*, a 3.2 million-year-old partial skeleton discovered in Ethiopia in 1974. Visitors can see a cast of the original skeletal materials and reconstruction of what *Lucy's* full skeleton might have looked like.

While you enjoy a delicious buffet and libations, stroll through the galleries which will take you from the Big Bang (located in Reinberger Hall of Earth and Planetary Exploration) through the Kirtland Hall of Prehistoric Life, the Perkins Native Plant Garden and the Sears Hall of Human Ecology.

Thursday, October 11

Trip #	Destination	Depart	Return
11-01	Oak Openings	7:00	5:00
11-02	Ottawa National Wildlife Refuge/ Cedar Point/Magee Marsh	6:30	5:00
11-03	Montville Swamp	8:00	4:00
11-04	Sheepskin Hollow State Nature Preserve	7:30	4:30
11-05	Kelleys Island	7:00	5:00
11-06	Bogs and Fens of Northeast Ohio	8:00	3:00
11-07	Liberty Park	8:00	4:00
11-08	Grand River Lowlands	7:00	3:30
11-09	Cuyahoga Wetlands Canoe Trip	8:30	3:30
11-10	Stream Restoration	8:00	3:00
11-11	Castalia Prairie at Resthaven Wildlife Area	9:00	3:00
11-12	Bradley Woods Metropark	8:30	12:30
11-13	Presque Isle State Park	7:00	4:30
11-14	Glacial Lake Canoe Trip	7:00	4:30
11-15	Holden Arboretum (Whole Day Guided)	8:00	3:00
11-16	Holden Arboretum (1/2 Day Guided)		canceled
11-17	Cuyahoga Valley Train Excursion	9:00	4:00
11-18	University Circle Tour	9:45	4:00
11-19	ORAM <i>Note: Classroom portion on Tuesday, October 9</i>	9:00	3:00
11-20	HHEI (Headwater Habitat Evaluation Index) <i>Note: Classroom portion 8:00 to 10:00 in Salon G. (66)</i>	10:00	3:30
11-21	VIBI (Vegetation Index of Biotic Integrity) <i>Note: Classroom portion 8:30 to 11:00 in Salon F. (65)</i>	11:00	3:30

Trolleys will begin departing from the Marriott at 5:30 p.m. Last trolley will leave the Marriott at 7:00 p.m. Trolleys will begin return trips to the Marriott at 9:30 p.m.

DIRECTIONS TO THE MUSEUM: Travel east on Ohio Rt. 2 (which will turn into I-90 east), exit at Martin Luther King Drive. Follow MLK for about 2 miles to the traffic signal at E. 105th street. Travel across E. 105th into the traffic circle. To remain on MLK, follow the first right out of the circle. Turn left at the very next street, Jephtha Drive (a large statue is located at the base of Jephtha). Follow Jephtha uphill to Wade Oval (left). The Museum is located on your left. Parking lot is to the right of the Museum. Parking is free.

Schedule of Presentations

Room	Salon A	Salon B	Salon C
7:30	Breakfast-ALL INVITED TO ATTEND NAA MEMBERSHIP MEETING		
Topic	SYMPOSIUM Deer Management: Lessons Learned in Ohio	Fire	WORKSHOP Land Trusts & Land Protection
Time	<i>Host: John Watts</i>	<i>Moderator: Pete Colverson</i>	<i>Host: Rich Cochran</i>
9:00	Deer management in urban natural areas. Watts (67)	Delayed mortality of eastern hardwoods after prescribed fire. Yaussey (77)	Introduction to land trusts and land protection. Cochran (87)
9:30	White-tailed deer management: an administrative point of view. Peck (68)	Fire effects and soil disturbance: investigating how Japanese climbing fern (<i>Lygodium japonicum</i>) responds in longleaf pine savannas. Carmichael (78)	Identify: conservation planning. Murphy (88)
10:00	Statewide Impacts of Deer Management, with Focus on Urban Natural Areas. Tonkovich, M (69)	Distribution of woody reseeder and resprouters (<i>Hypericum</i> spp.) along fire frequented ecoclines of the northern Florida Gulf Coast. Crandall (79)	
10:30	Mid-morning Break	Mid-morning Break	Mid-morning Break
	SYMPOSIUM (continued) Deer Management: Lessons Learned in Ohio	Fire	WORKSHOP (continued) Land Trusts & Land Protection
	<i>Host: John Watts</i>	<i>Moderator: Andy Jones</i>	<i>Host: Rich Cochran</i>
11:00	The real-world picture of deer fertility control. Turner (70)	Fire history of red pine-dominated forests of Seney National Wildlife Refuge, Upper Michigan. Drobyshev (80)	Protect: land conservation tools. Skowronski (89)
11:30	Controlled bow hunting vs. professional sharp-shooting as deer management tools in an urban setting. Klein (71)	Patterns of plant richness in fragments of globally imperiled pine rockland forest: effects of recent fire frequency and fragment size. Possley (81)	
12:00	Synthesis and discussion. Watts (72)	Ecosystem Management in the Albany Pine Bush Preserve: A Case Study of a Highly Fragmented Globally Rare Nature Preserve Gifford (82)	
12:30	Lunch	Lunch	Lunch
	Fragmentation: Urban & Suburban Nature	Historical Reconstruction of Ecosystems	WORKSHOP (continued) Land Trusts & Land Protection
	<i>Moderator: Charlie Nilon</i>	<i>Moderator: Steve Shelly</i>	<i>Host: Rich Cochran</i>
2:00	Armchair education and biology: are webcams for you? Alderson (73)	The vascular flora of Vinton Furnace Experimental Forest: how much has it changed in 50 years? Hutchinson (83)	Steward: basic conservation easement stewardship. Murphy (90)
2:30	The Wild Link Program: preserving and enhancing ecological corridors on private lands. Ellis, E (74)	Ethnobiology of Native American fish drives and its bearing on fisheries restoration: an example from Pennsylvania's Allegheny River. Williams (84)	
3:00	An Assessment of the Conservation Status of Ohio's Oak Openings Region Using Remotely Sensed Data. Schetter (75)	Paleolimnological records of human impact on Bass Lake, Ohio. Znidarsic (85)	Enforcement: are conservation easements going to last? Murphy (91)
3:30	Assembling natural areas in urbanized watersheds. Garrity (76)	Changes in the flora of the Oak Openings region of Ohio over the past 100 years. Walters (86)	Panel discussion: collaboration between land trusts and natural area practitioners. Cochran (92)
4:00	Conference Adjourns		

Salon F	Salon G	Salon H	Erie/Superior Rooms
Avian Ecology <i>Moderator: Erin Hazelton</i>	Invasive Species Effects on Ecosystem Processes <i>Moderator: Lisa Smith</i>	Habitat Assessment & Restoration <i>Moderator: Tim Nigh</i>	State Natural Areas: Special Session <i>Moderator: Karen Smith</i>
Managing park habitats for viable songbird populations. Petit (93)	Rehabilitation of native prairie remnants in the northern Great Plains utilizing fire and herbicide. Bahm (101)	Measuring habitat quality of tallgrass prairie remnants using auchenorrhynchous homoptera (Insecta: Hemiptera: Auchenorrhyncha). Wallner (111)	Writing Natural Area Management Plans
Determining lark sparrow breeding habitat requirements and success to inform sand barren restoration. Coulter (94)	Managing deer for biodiversity: a study on the impacts of overabundant deer on small mammal and invertebrate communities. Laux (102)	A preliminary ecological and floristic assessment of shale barrens in the Ouachita Mountains of Arkansas. Witsell (112)	
Butterfly Habitat Restoration on Reclaimed Mined Land of the Wilds in Southeastern Ohio. Cavender, N (95)	Effects of herbiciding <i>Phragmites australis</i> on microbial and invertebrate communities. Brown (103)	Hierarchical controls on riparian ground-flora composition and structure in beech-maple forest ecosystems of the Lower Great Lakes. Goebel (113)	
Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break
Social Context <i>Moderator: Renee Kivikko</i>	Invasive Plant Management <i>Moderator: Ruark Cleary</i>	Habitat Assessment & Restoration <i>Moderator: Barb Andreas</i>	State Natural Areas: Special Session <i>Moderator: Karen Smith</i>
Preserving nature using the human dimension as social capital. Oleskiewicz (96)	Impacts of invasive reed canary grass (<i>Phalaris arundinacea</i> L.) on plants, arthropods and small mammals. Ellis, J (104)	Restoration and recovery of a sedge-rush fen meadow degraded by non-native <i>Typha angustifolia</i> in northwestern Pennsylvania. Bissell (114)	Writing Natural Area Management Plans
The West Creek Stewardship Center: a partnership to enhance and protect the health of our urban watersheds. Mack, L. (97)	Creating a control plan for invasive plants: with special focus on Amur honeysuckle (<i>Lonicera maackii</i>). Borgman (105)	Assesment of landscape effects on white-tailed deer (<i>Odocoileus virginianus</i>) impacts in Cuyhoga Valley National Park, Ohio. Skerl (115)	
OPEN	Comparison of the photosynthetic capacity of three invasive shrubs with native woody species in meadow and woodland ecosystems of southwest Michigan. Dombos (106)	Occurrence and distribution of aquatic vascular plants of northeastern Pennsylvania's glacial lakes and ponds as related to water chemistry parameters. Block (116)	
Lunch	Lunch	Lunch	
Protection Roundtable <i>Moderator: Kay Carlson</i>	Oak Forests <i>Moderator: Randy Heidorn</i>	Conservation Education & Student Awards Ceremony <i>Moderator: Stacey Heffernan</i>	OPEN
Lake Erie Allegheny Partnership for Biodiversity: a collaborative approach to conservation of biodiversity. Carlson (99)	White oak decline and mortality in southern Ohio. Long (107)	Student awards ceremony (117)	
Panel discussion Collaboration between the confederated tribes of the Umatilla Indian Reservation and Washington State University for native plant and ecological restoration research. Link . Green Ribbon Initiative. Bryan . Assessing the role of New York State Parks in preserving biodiversity. Stein . (100)	Tree seedling and sapling survivorship after two dormant spring burns in southern Ohio mixed oak forests from 2000 to 2006. Rebeck (108)	Partnership possibilities and peculiarities: involving college undergraduates in natural areas research, management, and outreach. Bousquet (118)	
	Managing the regeneration in mixed-oak forests through fire and fire surrogate treatments: results after 8 years. Hutchinson (109)	Conservation education and nature preserves: a Mentor Marsh (Ohio) example. Kooser (119)	
Roundtable discussion. Carlson	Landscape heterogeneity and the influence of prescribed fire and thinning on hardwood regeneration in southern Ohio. Iverson (110)	Outdoor classrooms: how K-12 educators can use natural areas. Weirich (120)	

Keynote Address

Dr. Bernd Blossey

Dr. Blossey was born and raised in northern Germany. He went to school at Kiel University, initially interested in a degree in marine biology. Bernd then became fascinated by insects; followed by birds, plants and mammals and it became clear to him that he was an ecologist with wide ranging interests. After spending a summer internship at the Commonwealth Institute of Biological Control in Switzerland in the mid 1980s, he started his Masters work, which developed into a Ph.D., studying the insect communities on purple loosestrife in Europe (the native range of the plant). This study was motivated by the interest of potentially using insects from the native range of purple loosestrife as biological control agents in North America. In 1992, Bernd moved to Cornell University, initially as a post-doc and Research Associate and he is now an Associate Professor in the Department of Natural Resources. Bernd directs the Ecology and Management of Invasive Plants Program and he and his team now study impacts of invasive plants on a wide range of native organisms. Bernd also continues to develop and implement biological weed control programs. Among his target plants are purple loosestrife, garlic mustard, phragmites, Japanese knotweed and water chestnut.

Plenary Addresses

Dr. William Platt

Dr. Platt is Professor of Ecology at Louisiana State University. He is also a cooperating scientist who works with the Weeks Bay, Grand Bay, & Apalachicola National Estuarine Research Reserves, Tall Timbers Research Station, Avon Park Air Force Range, Girl Scouts of America, and Everglades and Jean Lafitte National Parks. He is a native of central Florida, a descendant of six generations of Floridians. Dr. Platt obtained his B.S. degree from the University of Florida, and his Ph.D. from Cornell University. He has been a professor at the University of Iowa, University of Illinois, and Florida State University, and he was a research biologist at Tall Timbers Research Station before moving to LSU (Geaux Tigers!). He has worked for over 30 years on the disturbance ecology and conservation biology of southeastern habitats, including pine savannas and forests, and has published more than 80 peer-reviewed scientific papers on fire and hurricane ecology in the southeast. Dr. Platt has been awarded more than \$5 million in federal grant support to study fire ecology during his career, and he is the author of landscape-level fire management in Everglades National Park. He has mentored 10 postdoctoral scientists, 35 graduate students, and many undergraduates during his career. His current interests are focused on developing scientific concepts to guide restoration and management of fragmented natural areas. His approach emphasizes the need to manage for functional landscapes, along with plant/animal biodiversity, in the context of ongoing ecological processes of both historic natural and recent human origin. In his plenary address, he will explore lessons learned from Gulf coastal transitions regarding how ongoing global climate change, via sea level rise, intense hurricanes,

and altered fire regimes, affects concepts for restoration and management of these sensitive, diverse landscapes.

Guy Denny

Mr. Denny is an interpretive naturalist, writer and photographer with a wealth of knowledge about the natural history of Ohio. Mr. Denny retired in 1999 from his position as Chief of the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, after a professional career spanning 33 years of public service. As Chief of DNAP, he was responsible for administering the state's natural areas and scenic rivers programs. A native of Toledo, Mr. Denny began his career as a naturalist with the Toledo MetroParks then as a Teacher-Naturalist for the Willoughby-Eastlake School District. He joined the State of Ohio in 1969 as Chief Naturalist for the ODNR Division of Parks and Recreation before transferring to the Division of Natural Areas and Preserves in 1976 as Assistant Chief. He is author of several booklets and articles on Ohio natural history, and is past editor of the DNAP Newsletter in which he published numerous articles and photographs. Since retiring, Mr. Denny has served on several boards. He served as the Executive Director of the Ohio Biological Survey from January 2006 to May 2007. Currently, he serves as Secretary-Treasurer for the Outdoor Writers of Ohio, Chair for District 17 NRAC (Natural Resources Advisory Council) for the Clean Ohio Fund, and serves on the boards of the Midwest Biodiversity Institute, The Trust for Public Land, and the Brown Family Environmental Center at Kenyon College. He also serves in an advisory capacity to Owl Creek Land Conservancy, The Appalachian Ohio Alliance, The Ohio League of Conservation Voters, Audubon Ohio, The Ohio Environmental Council, The Holden Arboretum, and the Cleveland Museum of Natural History. A self-taught naturalist, Mr. Denny received his Bachelor of Business Administration from the University of Toledo in 1967.

Dr. David Wagner

Dr. Wagner is a Professor of Ecology and Evolutionary Biology at the University of Connecticut where he teaches entomology, evolution, taxonomy, and biology to non-majors. He has a B.S. from Colorado State University in Plant Pathology and a Ph.D. in Entomology from the University of California at Berkeley. Dr. Wagner's principal research interests are in the taxonomy and classification of moths, especially leafminers and primitive lineages, and insect conservation. He has published five books and over 100 scientific papers.

His recently published Princeton University Press caterpillar field guide, *Caterpillars of Eastern Forests*, won a national book award and was featured on the front page of the Science Times section of the New York Times last August. The 2005 book, already in its fourth printing, has been translated into French and was the subject of a recent literary review. His most recent book, *The Butterfly Atlas of Connecticut*, released last month, is rich in both life history information and images of early stages—the book's principal emphasis is on conservation

of butterflies and their habitats. Dr. Wagner has also published articles on and maintains two Websites on dragonflies and damselflies.

Dr. Wagner is well-known for his involvement in invertebrate conservation in the Northeast. He is an active member of Connecticut's Advisory Panel for rare and endangered insects and other invertebrates and is commonly called upon by State

and Federal agencies for his advice on the region's imperiled insect biota. He is presently serving as a Co-Director of the UConn's Center for Conservation and Biodiversity and sits on boards for The Connecticut Chapter of The Nature Conservancy, the Connecticut State Museum of Natural History, and the Organization of Tropical Studies (Delegates Assembly).

Conference Committee

** denotes members of the Program Committee*

Barb Andreas [KENT STATE UNIVERSITY](#)

Jim Bissell* [CLEVELAND MUSEUM OF NATURAL HISTORY](#)

Tom Borgman [HAMILTON COUNTY PARKS](#)

Renee Boronka [CLEVELAND MUSEUM OF NATURAL HISTORY](#)

Rich Cochran [WESTERN RESERVE LAND CONSERVANCY](#)

Rob Curtis* [METROPARKS-SERVING SUMMIT COUNTY](#)

Steve Dice [FIVE RIVERS METROPARKS](#)

Paul Drewa* [CASE WESTERN RESERVE UNIVERSITY](#)

Liz Ganocy [CLEVELAND MUSEUM OF NATURAL HISTORY](#)

Dawn Gerlica [THE HOLDEN ARBORETUM](#)

Jennifer Hillmer* [THE HOLDEN ARBORETUM](#)

Mary Klunk [FIVE RIVERS METROPARKS](#)

Mary Knapp* [U.S. FISH & WILDLIFE SERVICE](#)

Deb Kraus [NATURAL AREAS ASSOCIATION](#)

David Kriska [CLEVELAND MUSEUM OF NATURAL HISTORY](#)

Marleen Kromer* [THE NATURE CONSERVANCY](#)

Bill Lynerd [CLEVELAND MUSEUM OF NATURAL HISTORY](#)

Bob McCance* [NATURAL AREAS ASSOCIATION](#)

Thomas Meyer [NATURAL AREAS ASSOCIATION](#)

Carrie Morrow [COLUMBUS & FRANKLIN COUNTY METROPARKS](#)

Paul Novak [U.S. ENVIRONMENTAL PROTECTION AGENCY](#)

Lisa Petit [CUYAHOGA VALLEY NATIONAL PARK](#)

Bradley Stemen

Nancy Strayer* [OHIO DIVISION OF NATURAL AREAS & PRESERVES](#)

Amy Terpay [WESTERN RESERVE LAND CONSERVANCY](#)

Annemarie Vincent [U.S. ENVIRONMENTAL PROTECTION AGENCY](#)

John Watts [COLUMBUS & FRANKLIN COUNTY METROPARKS](#)

Jennifer Windus [OHIO DIVISION OF WILDLIFE](#)

Natural Areas Association

The Natural Areas Association (NAA), founded in 1980, is a non-profit organization that, for nearly 30 years, has been providing support and vital resources to individuals and agencies concerned with the protection and stewardship of natural areas. As a forum for those committed to natural area conservation, the NAA:

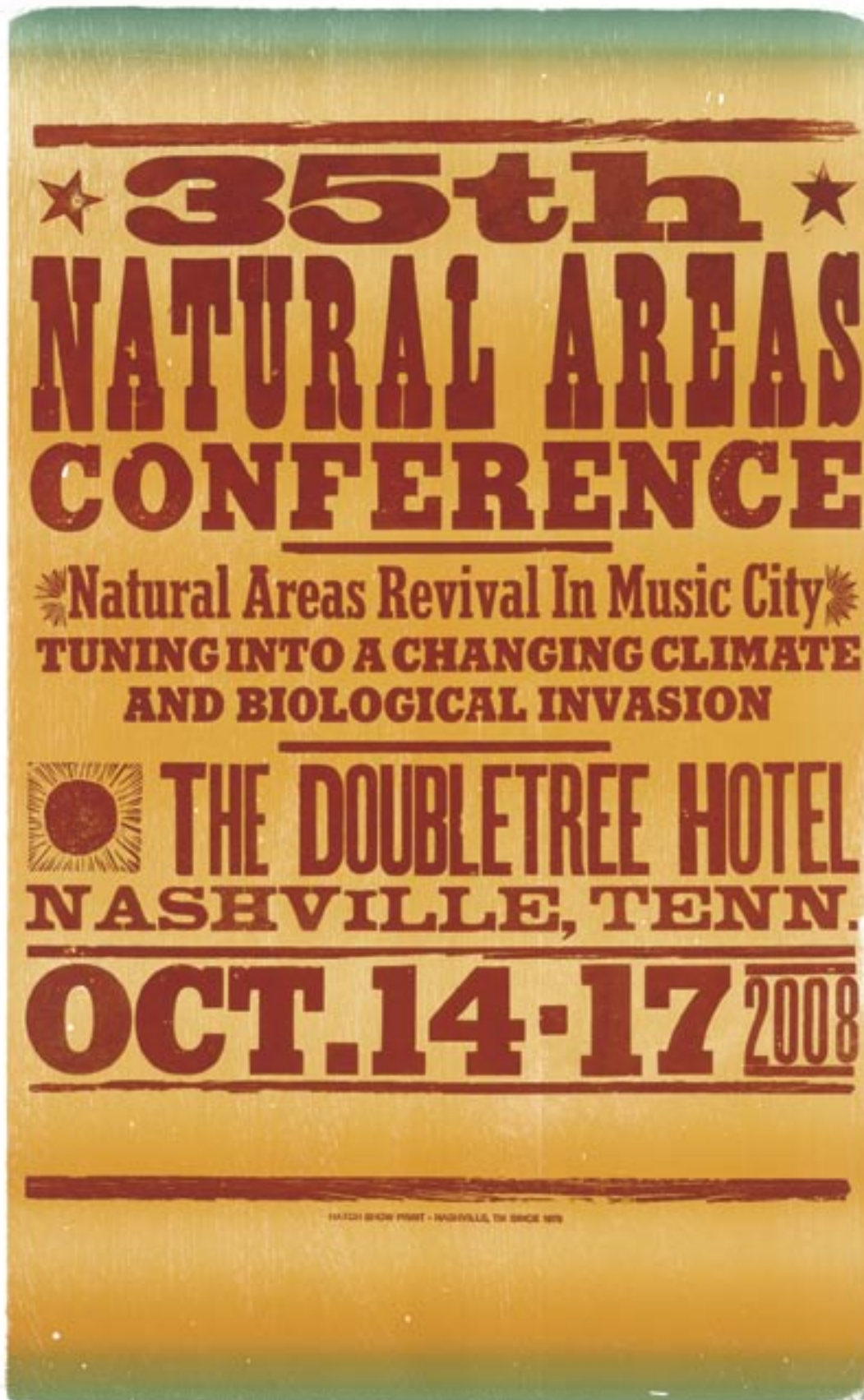
- Publishes the *Natural Areas Journal* and *Natural Area News*;
- Hosts the annual Natural Areas Conference;
- Develops special reports such as the Status of State Natural Area Programs (SSNAPs);
- Facilitates special sessions and working committees such as the State Natural Areas Roundtable;
- Provides education and outreach to the land trust community;
- Hosts international workshops—guided trips focused on natural areas conservation;
- Serves as a portal—a central resource for natural areas information and services;

To learn more about the Natural Areas Association or get involved, visit: www.naturalarea.org.



Harlequin Darner by Jennifer Brumfield

Join Us Next Year...



This Program is printed on paper that is manufactured with 100% post-consumer fibers and Processed Chlorine Free.