



30th Natural Areas Conference

September 24-27, 2003
MADISON, WISCONSIN, USA

Defining a Natural Areas Land Ethic

Hosted by the Natural Areas Association and the
Wisconsin Department of Natural Resources'
Endangered Resources Program



CO-HOST

Invasive Plants Association of Wisconsin

UNDERWRITERS (\$5,000 +)

National Park Service
The Nature Conservancy-Wisconsin Chapter
USDA Forest Service
Wisconsin DNR Division of Forestry
Wisconsin DNR Division of Land

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

• American Transmission Co. • Applied Ecological Services • Bureau of Land Management • Chequamegon-Nicolet National Forest • Gathering Waters Conservancy • Natural Resources Conservation Service • US Fish and Wildlife Service-Region 3 • WE Energies • WI Board of Commissioners of Public Lands • WI State Natural Areas Program

SUPPORTERS (\$500 - \$999)

• Aldo Leopold Foundation • International Crane Foundation • The Prairie Enthusiasts • University of Wisconsin-Madison Arboretum • Wisconsin DNR Urban Forestry Program

PARTNERS (\$100 - \$499)

• Apostle Islands National Lakeshore • City of Madison Parks Division • Dane County Parks Department • DuPont • Friends of Wisconsin State Parks • Gaylord Nelson Institute for Environmental Studies • Ho-Chunk Nation • Madison Audubon Society • Milwaukee Public Museum • Natural Resources Foundation of Wisconsin • Rutabaga • Wisconsin Academy of Sciences, Arts, & Letters • Wisconsin Bird Conservation Initiative • Wisconsin Chapter of The Wildlife Society

Welcome back to Wisconsin!

In October 1974, Wisconsin hosted the first Natural Areas Workshop at Wyalusing State Park at the confluence of the Mississippi and Wisconsin Rivers. From that first small gathering of 27 dedicated natural area professionals and subsequent workshops, emerged the Natural Areas Association in 1978. Wisconsin is pleased and proud to host the 30th Natural Areas Conference as it concludes a year of celebrating the 50th anniversary of its State Natural Areas Program.

Interwoven through plenary and contributed paper sessions, symposia, and field trips is this year's conference theme, *Defining a Natural Areas Land Ethic*, challenging us to explore the role natural lands play in Aldo Leopold's vision of an ecological conscience.

The conference logo depicts Parfrey's Glen, a cool, mossy gorge incised into the south flank of the Baraboo Hills. It was recommended for purchase by the Wisconsin Conservation Commission's Natural Areas Committee, a group established upon the urging of then-commissioner Aldo Leopold. The glen was acquired in 1947 and later designated as Wisconsin's first State Natural Area in 1952. Parfrey's Glen stands as an enduring symbol of Wisconsin's 50-year legacy of protecting natural areas. Illustration by Louise Leighton. Reproduced courtesy of the Wisconsin Academy of Sciences, Arts, & Letters from the Spring, 1959 issue of *Wisconsin Academy Review*.



Agenda-at-a-Glance

Wednesday, September 24

- 9:00 am - 8:00 pm Registration
- 1:00 pm - 3:00 pm Welcome and plenary session (*Madison Ballroom A-B*)
- 3:00 pm - 3:30 pm Break (*Capitol Promenade / Grand Terrace*)
- 3:30 pm - 4:15 pm Plenary session (*Madison Ballroom A-B*)
- 4:15 pm - 5:30 pm Keynote address (*Madison Ballroom A-B*)
- 5:30 pm - 7:00 pm Dinner on your own
- 7:00 pm - 10:00 pm Welcome Back to Wisconsin social and poster reception
(*Grand Terrace / Capitol Promenade / Madison Ballroom A-B*)

Thursday, September 25

- Breakfast on your own
- 7:30 am - 6:00 pm Registration
- 8:00 am - 9:30 am Symposia and contributed paper sessions (*Hall of Ideas E-J*)
- 9:30 am - 10:00 am Break (*Capitol Promenade / Grand Terrace*)
- 10:00 am - 11:30 am Symposia and contributed paper sessions (*Hall of Ideas E-J*)
- 11:30 am - 1:00 pm Lunch on your own
- 11:30 am - 1:00 pm Other group meetings as scheduled (*Hall of Ideas*)
- 1:00 pm - 3:00 pm Symposia and contributed paper sessions (*Hall of Ideas E-J*)
- 3:00 pm - 3:30 pm Break (*Capitol Promenade / Grand Terrace*)
- 3:30 pm - 5:30 pm Symposia and contributed paper sessions (*Hall of Ideas E-J*)
- 5:30 pm - 6:30 pm Natural Areas Association Membership Meeting (*Hall of Ideas E*)
- 6:30 pm Dinner on your own
- 7:00 pm - 10:00 pm Other group meetings as scheduled (*Hall of Ideas H-J*)
- 8:00 pm - 10:00 pm Screening of *Wild Places* (*Hall of Ideas F-G*)

Friday, September 26

- Breakfast on your own
- 6:30 am - 9:00 am Registration
- 7:00 am - 5:00 pm Field trips
- 5:00 pm - 7:00 pm Registration
- 6:00 pm - 7:00 pm Social and silent auction (*Madison Ballroom A-D*)
- 7:00 pm - 10:00 pm Banquet, awards ceremony, and live auction (*Madison Ballroom A-D*)

Saturday, September 27

- Breakfast on your own
- 7:00 am - 5:00 pm Registration
- 8:00 am - 9:30 am Symposia and contributed paper sessions (*Hall of Ideas E-J, Meeting Rooms K-R*)
- 9:30 am - 10:00 am Break (*Capitol Promenade / Grand Terrace*)
- 10:00 am - 11:30 am Symposia and contributed paper sessions (*Hall of Ideas E-J, Meeting Rooms K-R*)
- 11:30 am - 1:00 pm Lunch on your own
- 11:30 am - 1:00 pm Other group meetings as scheduled (*Hall of Ideas*)
- 1:00 pm - 3:00 pm Symposia and contributed paper sessions (*Hall of Ideas E-J, Meeting Rooms K-R*)
- 3:00 pm - 3:30 pm Break (*Capitol Promenade / Grand Terrace*)
- 3:30 pm - 5:00 pm Symposia and contributed paper sessions (*Hall of Ideas E-J, Meeting Rooms K-R*)
- 5:00 pm Conference ends

A general poster session is scheduled for Wednesday and Thursday in the Capitol Promenade.
An invasive plant poster session is scheduled for Saturday in the Capitol Promenade.



General Information

Questions? Stop in at the registration counter, or look for attendees wearing green "HOST" 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 ready room • A slide projector and screen to preview slide presentations is available behind Registration Counter 2 (adjacent to Hall of Ideas J) during conference hours. Inquire at the registration counter.

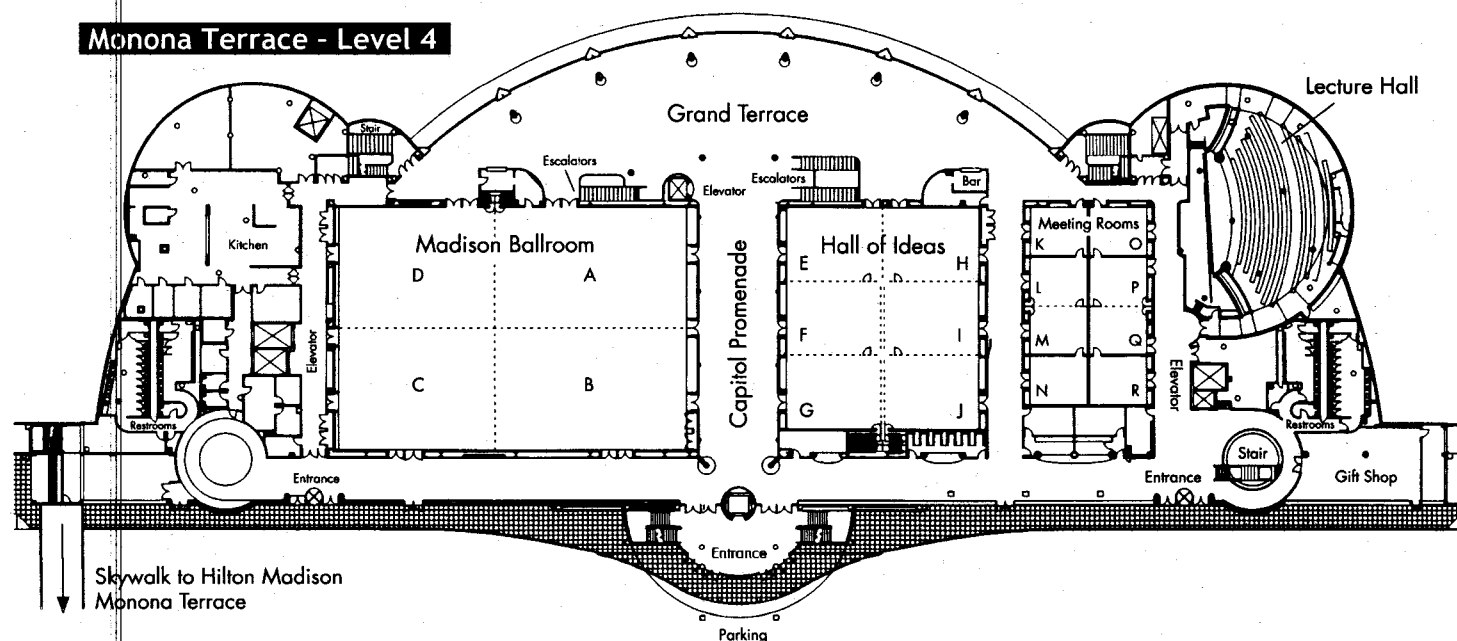
Dining out • Except for Friday's banquet and field trip box lunch, all meals are on your own. Madison claims to have more restaurants per capita than any U.S. city, and a variety of ethnic eateries, brewpubs, vegetarian restaurants, and sidewalk food carts are within a short walk of Monona Terrace. Refer to the restaurant list and downtown maps in your conference folder. **Please note:** if you are registered for Friday, a box lunch has been provided for you even if you elected not to attend a field trip. Pick up your box lunch between 6:45 am and 9:00 am Friday morning on Level 1 of Monona Terrace. Unclaimed lunches will be donated to a local food pantry.

Raffle • Don't miss the boat! The Natural Areas Association is raffling a sleek, 12' Sundance kayak made by Perception. A stable, recreational boat designed for lakes, ponds, and slow rivers, the Sundance is great for beginning and experienced paddlers alike. The wide cockpit is easily accessible, with enough extra room for a toddler or dog, and can carry up to 400 pounds. Live far away? We'll ship it to the winner! Get your raffle tickets at the NAA table or from any NAA board member. Drawing at Friday's banquet. You must be present to win.

Auction • An exotic array of silent and live auction items will be displayed in the Grand Terrace for your bidding pleasure beginning Wednesday. Bidding will close on silent auction items during Friday evening's banquet, just prior to the live auction. Winning bidders must pay for their items on Friday night. 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.

Conference T-shirts • Stop in at the Natural Areas Association exhibit in the Grand Terrace to pick up your official 2003 Natural Areas Conference t-shirt before they sell out. These all-cotton, heavyweight tees sport the conference graphic and sell for \$12.00.

In your free time... See the insert in your conference folder for other things to do in and about Madison before, during, and after the conference. Also, pick up a copy of the *Official Madison Visitor's Guide*, a *Discover Downtown Madison* map/guide, and other brochures at the information counter near the entrance.





Schedule of Special Events & Meetings

WEDNESDAY, SEPTEMBER 24

Plenary Addresses • (Madison Ballroom A-B)

- 1:30 pm **Surveying Wisconsin's Natural Landscape**
Rob Nurre, *Land Records Manager, Wisconsin Board of Commissioners of Public Lands*
- 2:15 pm **Leopold, Land Ethics, and Homeland Security**
Curt Meine, *Director of Conservation Programs, Wisconsin Academy of Sciences, Arts, and Letters*
- 3:30 pm **Conservation from the Other Side: Good Cities are Good for the Environment**
David Cieslewicz, *Mayor, City of Madison, Wisconsin*

Keynote Address • (Madison Ballroom A-B)

- 4:15 pm **Protecting Our Wild Places: Where Do We Go From Here?**
Michael Dombeck, *Pioneer Professor of Global Environmental Management - University of Wisconsin-Stevens Point; University of Wisconsin System Fellow of Global Conservation; and former Chief, USDA Forest Service*

Welcome Back to Wisconsin Social and Poster Reception • After dinner on your own, return to Monona Terrace for dessert and socializing with your fellow conference attendees. View poster presentations and meet the authors. Cash bar available. (7:00 pm - 10:00 pm, Grand Terrace / Capitol Promenade)

THURSDAY, SEPTEMBER 25

Landscape Ecology Symposium: Principles, Application and Implementation • An overview of the field of landscape ecology beginning with a primer on standard principles, moving through application to real world situations, and concluding with a look at state and regional planning processes where landscape ecology provides a foundation for natural area protection. *Underwritten by the Wisconsin DNR's Division of Forestry and Division of Land.* (8:00 am - 5:30 pm, Hall of Ideas E)

Fire Forum • Explore the myriad aspects of fire as it is applied for conservation purposes in this two-day forum. Sessions on long-term fire effects, impacts of prescribed fire on various taxa, safety and training issues, and "right to burn" concerns will be addressed. *Sponsored by the Natural Area Association's Management and Technology Committee.* (8:00 am - 5:30 pm, Hall of Ideas J)

Big Rivers Ecology Symposium: Diversity, Dynamics and Challenges • Large rivers contribute an incredible amount of biological diversity to our world. This symposium focused on flowing water systems will focus on that diversity, as well as management strategies and approaches to setting protection priorities. (8:00 am - 9:30 am, Hall of Ideas F)

Private Lands: Public Interest Symposium • Speakers will share their experiences working with lands of interest to conservation professionals that remain in private ownership. Case studies, public policies affecting private lands, and the future of private land conservation will be explored. (8:00 am - 11:30 am, Hall of Ideas G)

Midwest Invasive Plant Network Organizational Meeting • Midwesterners are encouraged to gather over lunch to provide input on the need and role for a Midwest regional invasive plants group. Bring your lunch. (11:30 am - 1:00 pm, Hall of Ideas H)

THURSDAY, SEPTEMBER 25 (continued)

Natural Areas Association Membership Meeting • Learn about the association's financial status and the activities of the NAA's program committees over the past year. Members will vote on nominees for the Board of Directors. Discuss issues and ideas pertinent to running the organization and to its future plans. (5:30 pm - 6:30 pm, Hall of Ideas E)

National Association of Exotic Pest Plant Councils Meeting • Representatives of all state and regional EPPCs will report on their activities and share ideas for being effective. All are welcome to learn what is going on elsewhere. (7:30 pm - 9:30 pm, Hall of Ideas I)

Wild Places • Join us for a big-screen presentation of *Wild Places*, the scenic documentary produced by Wisconsin Public Television in recognition of last year's 50th Anniversary of the Wisconsin State Natural Areas Program. This hour-long film showcases the stunning landscapes protected in some of Wisconsin's best natural areas. We'll also show *Bringing Back the Cranes*, a video highlighting a Wisconsin-based project to create a migratory flock of endangered whooping cranes in eastern North America. (8:00 pm - 10:00 pm, Hall of Ideas F-G)

FRIDAY, SEPTEMBER 26

Field Trips • Refer to the invoice in your conference packet to confirm your trip selection. Please pick up your box lunch on Level One of Monona Terrace and board your bus 10 minutes before departure. Buses will leave from Level 1 of Monona Terrace, PROMPTLY at their designated departure times (see below).

#	Trip Destination	Depart/Return	#	Trip Destination	Depart/Return
1	Kickapoo Valley Reserve/Wildcat Mtn.	7:30 - 5:00	11	Prairie Nursery/Restoration	8:00 - 5:00
2	Oak Openings & Prairies/Kettle Moraine	7:30 - 5:00	12	Fire in Oak Ecosystems	8:00 - 5:00
3	Leopold Shack/Int'l Crane Foundation	8:00 - 4:00	13	UW-Madison Arboretum	8:30 - 12:00
4	Aquatic Fauna/Lower Wisconsin River	7:30 - 5:00	14	UW-Madison Arboretum	12:30 - 4:00
5	Tools & Techniques/Control of Invasives	7:30 - 5:00	15	Mississippi River Bluffs/Rush Creek	7:00 - 5:00
6	Buttes, Mesas, Wetlands/Glacial Lake Wis.	7:30 - 5:00	16	Grasslands & Barrens/Lower Wis. River	8:00 - 5:00
7	Baraboo Hills Forest Ecology/Protection	8:00 - 5:00	17	Bald Eagles & Prairies/ Private Land	CANCELLED
8	Flaville Grove/Archeology of Aztalan	8:00 - 5:00	18	Flora and Geology/Devil's Lake Region	8:00 - 5:00
9	Fens and Bogs/Southeastern Wis.	7:30 - 5:00	19	Baraboo River Restoration	8:00 - 4:30
10	John Muir's Boyhood Haunts	8:30 - 5:00			

Social and Silent Auction • Unwind after a day of field tripping and take advantage of this last chance to bid on silent auction items. A cash bar will be available. (6:00 pm - 7:00 pm, Madison Ballroom A-D)

Banquet • Join your colleagues for lively dinner conversation, presentation of the NAA's George Fell and Stewardship awards, raffle, and always-entertaining live auction. Our special banquet speaker is Nina Leopold Bradley, eldest daughter of Aldo Leopold, who will present *For the Health of the Land*. Please bring the banquet ticket found in your name badge holder. (7:00 pm - 10:00 pm, Madison Ballroom A-D)

SATURDAY, SEPTEMBER 27

Invasive Plants of the Upper Midwest Symposium • A comprehensive, full-day symposium including more than 80 talks, panel discussions, and workshops on all aspects of invasive plants. Displays of tools, educational resources, and plant specimens will provide participants with the latest information in the field. Hosted by the Invasive Plants Association of Wisconsin. (Hall of Ideas E-J; Meeting Rooms L,M,O,P,Q)

Invasive Plants Association of Wisconsin Annual Meeting • Members and anyone else interested in learning more about IPAW and its activities are encouraged to attend this lunch meeting and provide input to the board and working committees. Bring your lunch. (11:30 am - 1:00 pm, Hall of Ideas H)

Fire Forum (continued) • See Thursday's description. (8:00 am - 11:30 am, Meeting Rooms L-M)

ROOM →	Hall of Ideas E	Hall of Ideas F	Hall of Ideas G
TIME ↓	LANDSCAPE ECOLOGY SYMPOSIUM Moderator: David Mladenoff	BIG RIVERS ECOLOGY SYMPOSIUM Moderator: Paul West	PRIVATE LANDS SYMPOSIUM Moderator: Steve Swenson
8:00	Introduction to landscape ecology. <i>Jeffrey A. Cardille</i>	An ecological means to flood damage reduction in the upper Mississippi River basin. <i>Deanna L. Montgomery</i>	Recognizing the public interest in private land: building on Aldo Leopold's legacy. <i>Curt Meine</i>
8:30	Landscape patterns: causes and quantification. <i>Jeffrey A. Cardille</i>	Large-scale floodplain restoration along the Illinois River at Spunky Bottoms and Emiquon. <i>K. Douglas Blodgett</i>	Bringing community into community-based conservation: two contrasting case studies. <i>Wellington Huffaker</i>
9:00	Connecting landscapes: good, bad, or indifferent? <i>Brent J. Danielson</i>	Defining conservation priorities in the upper Mississippi River: a comprehensive assessment of biodiversity. <i>Mary L. Khoury</i>	Privately owned lands in the Illinois nature preserve system - an encouraging trend. <i>Don McFall</i>
9:30	Break	Break	Break
	LANDSCAPE ECOLOGY SYMPOSIUM Moderator: David Mladenoff	SMALL STREAMS Moderator: Lisie Kitchel	PRIVATE LANDS SYMPOSIUM Moderator: Steve Swenson
10:00	Using landscape ecology to identify sampling sites across large areas. <i>Jeffrey A. Cardille</i>	Effects of acidification, crayfish, and forest seral stage on leaf processing in an Allegheny Plateau headwater stream. <i>Rachel J. Martin</i>	Importance of private lands in the management of chronic wasting disease. <i>Scott R. Craven</i>
10:30	Western ponderosa pine natural areas: another look at the landscape ecology of fire. <i>William L. Baker</i>	Stream restoration - two Michigan case studies. <i>Greg M. Quartucci</i>	What the future might hold for conservation on private lands. <i>Paul Johnson</i>
11:00	Pre-euroamerican forests in northern Wisconsin: historical variability at the regional scale. <i>Lisa A. Schulte</i>	Relationships between environmental setting and vegetation types along streamside slopes within the Sandhill coastal plain province. <i>Donald W. Imm</i>	Panel Discussion: Private lands. <i>C. Meine, W. Huffaker, D. McFall, S. Craven, P. Johnson</i>
11:30	Lunch	Lunch	Lunch
	LANDSCAPE ECOLOGY SYMPOSIUM Moderator: David Mladenoff	FLORISTIC QUALITY Moderator: Ron Hiebert	EFFECTIVE PARTNERSHIPS Moderator: Lisa Smith
1:00	Prediction of species occurrence in managed landscapes across space and time. <i>Erica Fleishman</i>	Vascular flora of the Pembroke savannas, Kankakee County, Illinois. <i>Mary Ann Feist</i>	Stringing the pearls - protecting special places along Wisconsin's west coast. <i>Craig D. Thompson</i>
1:30	Linking landscape and habitat models to species viability for wildlife conservation and management. <i>H. Resit Akçakaya</i>	Canopy composition and soil characteristics of Fall-line Sandhill communities. <i>Kathryn Madden</i>	Lake Michigan Shorelands Alliance: a regional land trust collaboration. <i>Karen Bassler</i>
2:00	Delineation of terrestrial buffers and core habitat around wetlands for amphibians and reptiles. <i>Raymond D. Semlitsch</i>	Vascular flora of Hooper Branch Nature Preserve and the Iroquois County Conservation Area, Iroquois County, IL. <i>D. Busemeyer</i>	Innovative partnerships for conservation: the LaCrosse Blufflands Protection Program. <i>Cynthia J. Olmstead</i>
2:30	The need for a landscape ecology of invasive spread. <i>Kimberly A. With</i>	Characteristics of biodiversity and conservation in Cuba - situation of the Oriental region. <i>Nicasio Viña-Davila</i>	Natural areas protection and conservation districts in Minnesota: an untapped resource. <i>John C. Vickery</i>
3:00	Break	Break	Break
	LANDSCAPE ECOLOGY SYMPOSIUM Moderator: Randy Hoffman	SIGNS WORKSHOP Coordinator: Joyce Bender	EFFECTIVE PARTNERSHIPS Moderator: Rick Thom
3:30	Ecoregion biodiversity assessment and implementation: examples from the Upper Midwest. <i>Paul C. West</i>	Has it really been since 1989 that we've talked about "signage"? We've come a long way from Carsonite...or have we? Fiberglass embedment, laminates, computer generated graphics; what are the products that you are using for interpretive signs and posting boundaries? Please share your successes and your failures. None of us have the time or money to spend on signs that don't hold up to vandals, wildlife, and weather. Please come prepared with examples of materials, vendors, costs, signs, and text that really gets your message across.	Tennessee Valley Authority natural areas program: managing sensitive natural resources and providing passive recreation opportunities. <i>Nancy D. Fraley</i>
4:00	Creating a 50-year vision: Wisconsin's attempt to identify places critical in meeting future conservation and recreation needs. <i>John D. Pohlman</i>		Paths of support: Deeds and directions of the Natural Areas Association. <i>Reid Schuller</i>
4:30	Identifying significant ecological sites: harnessing the local knowledge of biodiversity. <i>Andrew P. Galvin</i>		Michigan's Stewardship Network. <i>Sherri Laier</i>
5:00	Using landscape characteristics to help develop a system of representative reference areas. <i>Randy Hoffman</i>		State comprehensive wildlife conservation plans: big opportunities for natural area conservation. <i>Richard Thom</i>

ROOM →	Hall of Ideas H	Hall of Ideas I	Hall of Ideas J
TIME ↓	NATURAL AREA PLANNING Moderator: <i>Kim Herman</i>	NATURAL AREA MANAGEMENT Moderator: <i>Craig Thompson</i>	FIRE FORUM Moderator: <i>Randy Heidorn</i>
8:00	Utilizing the Minnesota land cover classifications system as part of an adaptive strategy. <i>Paul J. Bockenstedt</i>	Compositional and structural changes in southern Wisconsin oak forests over the last half-century. <i>Jonathan D. Coop</i>	Compatibility of summer burning with insect conservation. <i>Joe Henry</i>
8:30	Recognizing restorable open oak woodlands and oak savannas by using understory indicator species. <i>Brian W. Pruka</i>	It's not like it used to be: 50 years of change in the northwoods. <i>Don Waller</i>	Impact of prescribed burning on prairie spiders. <i>Frank Pascoe</i>
9:00	From design to designation: an ecological reference area for the Chequamegon-Nicolet National Forest. <i>Linda R. Parker</i>	The changing vegetation of Wisconsin: lessons from repeat photography. <i>Lucy E. Tyrrell</i>	Effects of successive fires on insects. <i>Ron Panzer</i>
9:30	Break	Break	Break
	NATURAL AREA PLANNING Moderator: <i>Karen Kramer</i>	NATURAL AREA MANAGEMENT Moderator: <i>Matt Zine</i>	FIRE FORUM Moderator: <i>Randy Heidorn</i>
10:00	Monitoring and conservation of bird populations in the Chequamegon-Nicolet National Forest. <i>Robert W. Howe</i>	Quantifying historical loss of plant species diversity in Milwaukee County, Wisconsin. <i>Lawrence A. Leitner</i>	Controlled burning in the Chicago region. <i>Jim Anderson</i>
10:30	Selecting effective umbrella species for protection and management: the umbrella species index. <i>Robert B. Blair</i>	Land use legacy effects: exotic plant species distributions sixty years after agricultural abandonment. <i>Michael A. Huston</i>	Fire temperature regimes in Midwestern wetlands. <i>J. Elizabeth Maas</i>
11:00	Effect of area and isolation on species richness and indices of conservation value in Illinois wetlands. <i>Jeffrey W. Matthews</i>	Management matters, plants differ, assessment methods vary: change in Wisconsin prairie remnants after half-century. <i>Mark K. Leach</i>	Fire ecology and management for an endangered mint. <i>Eric S. Menges</i>
11:30	Midwest Invasive Plant Network Meeting	Lunch	Lunch
	FOCUS ON LOCKPORT PRAIRIE Moderator: <i>Drew Feldkirchner</i>	NATURAL AREA MANAGEMENT Moderator: <i>John Harrington</i>	FIRE FORUM Moderator: <i>Nancy Braker</i>
1:00	An introduction to U.S. Army Corps of Engineers ecosystem restoration programs and to the Lockport Prairie project. <i>Jean Sellar</i>	Short-term response to severe wind disturbance in a Great Lakes pine forest. <i>Erin M. Ernst</i>	Restoring old growth pine forests with prescribed burns. <i>Becky Marty</i>
1:30	Lockport Prairie: the role of groundwater in sustaining a unique ecosystem and the need for understanding system dynamics. <i>Wayne P. Fassbender</i>	The chips were flying, a tale of stewardship of a new tract of land at Nachusa grasslands. <i>Bill Kleiman</i>	Fire history of a post oak (<i>Quercus stellata</i>) woodland in Hamilton County, IL. <i>William E. McClain</i>
2:00	Hydrologic modeling for ecosystem restoration, Lockport Prairie, Illinois. <i>Heather E. Henneman</i>	Restoration of oak islands sandcape, Apostle Islands National Lakeshore. <i>Julie F. Van Stappen</i>	Fire and fire surrogates for management of southern coastal plain flatwoods. <i>Kenneth W. Outcalt</i>
2:30	Plant communities at Lockport Prairie Nature Preserve, their quality and landscape position. <i>Gerould S. Wilhelm</i>	Restoration success? Use of small mammal abundance and pheasant nest locations as metrics to evaluate habitat quality in reconstructed prairies. <i>Shawn P. Schottler</i>	The relative role of fire on plant diversity in oak savannas. <i>Evan Weiher</i>
3:00	Break	Break	Break
	EXOTIC PEST PLANT COUNCIL FORUM Moderator: <i>Brian Bowen</i>	NATURAL AREA MANAGEMENT Moderator: <i>Steve Richter</i>	FIRE FORUM Moderator: <i>Nancy Braker</i>
3:30	EPPCs and Invasive Plant Councils: organizing to protect natural areas and wildlands.	What changes are "natural"? Monitoring plant community composition in wetlands of the Apostle Islands National Lakeshore, WI USA. <i>James E. Meeker</i>	Planning for prescribed fire: past, present, and future. <i>Kenneth S. Mierzwa</i>
4:00	This forum, hosted by the National Association of Exotic Pest Plant Councils, will present examples of what EPPCs and Invasive Plant Councils are accomplishing in the Southeast, Mid-Atlantic, Midwest, Florida, California, and elsewhere. Learn how EPPCs are organized and how organizing can make a difference in keeping invasive plants out of natural areas and wildlands.	Vegetative responses in DuPage County, Illinois woodlands. <i>Scott N. Kobal</i>	UW-Stevens Point fire crew: a novel resource for fire managers in Wisconsin. <i>James E. Cook</i>
4:30		Fifty years of biotic impoverishment in Wisconsin forest understory communities: the importance of state parks and research natural areas. <i>Tom Rooney</i>	Making the case for prescribed burning legislation. <i>Carolyn Taft Grosboll</i>
5:00		Preventing introductions of additional forest pests. <i>Faith T. Campbell</i>	Achieving community consensus on fire management: a matter of ethics or expediency? <i>Claudia Luke</i>

ROOM →	Hall of Ideas E	Hall of Ideas F	Hall of Ideas G
TIME ↓	IMPACTS OF INVASIVE PLANTS Moderator: James Reinartz	INVASIVES POLICIES - FEDERAL & LOCAL Moderator: Bonnie Harper-Lore	INVASIVE AQUATIC PLANTS Moderators: Deb Konkel & Frank Koshere
8:00		Unsolved problems in the war on weeds. <i>Bonnie Harper-Lore</i>	Early spring applications of Aquathol K for control of curlyleaf pondweed and Eurasian water-milfoil. <i>John Skogerboe</i>
8:30	Impacts of invasive plants on native amphibians. <i>Victoria Nuzzo</i>	Invasive plants: recent federal policy advances. <i>Faith T. Campbell</i>	Lime slurry - an innovative management tool for aquatic plants. <i>Meg Ratter</i>
9:00	Using data on impacts of invasive species to help prioritize threats. <i>John Randall</i>	The City of Ann Arbor's invasive species list. <i>David Borneman</i>	A Wisconsin perspective on developing a state aquatic invasive species prevention and control program. <i>Frank Koshere</i>
9:30	Break	Break	Break
	IMPACTS OF INVASIVE PLANTS Moderator: James Reinartz	CONTROL METHODS FOR INVASIVES Moderator: Steve Richter	INVASIVE AQUATIC PLANTS Moderators: Deb Konkel & Frank Koshere
10:00	<i>Microstegium vimineum</i> : Light as a limiting factor in its growth and the effects on species diversity. <i>Carolyn Cromer</i>	Honeysuckle, not as sweet as its scent. <i>Rick Schulte</i>	<i>Hydrilla verticillata</i> survive Wisconsin winters? It could happen! <i>Kristine C. Maki</i>
10:30	<i>Rhamnus cathartica</i> : replacement or addition of an invasive species into the floodplain forests of the Lower Wisconsin State Riverway. <i>Esther Alsum</i>	Restoring natural processes inhibits the reinvasion of <i>Rhamnus cathartica</i> and <i>Lonicera x bella</i> . <i>Jolene Ackerman</i>	Managing aquatic exotic and invasive species using water fluctuation. <i>Stanley Nichols</i>
11:00	Discussion forum: Observations and data on impacts of invasive plants. <i>James Reinartz</i>	Status of kudzu (<i>Pueraria lobata</i>) in Illinois: a framework for eradication. <i>Jody P. Shimp</i>	Identification and invasiveness of North American <i>Typha</i> species. <i>S. Galen Smith</i>
11:30	Lunch	Lunch	Lunch
	INDUSTRY PERSPECTIVES ON INVASIVES Moderator: Susan Lehnhardt	CONTROL METHODS FOR INVASIVES Moderator: Hannah Spaul	VOLUNTEERS & INVASIVES Moderator: Kathleen Harris
1:00	Reed canary grass: friend and foe. <i>Michael D. Casler</i>	Creative use and maintenance of land management tools. <i>Wayne Pauly</i>	Achieving management goals through interns. <i>Kathleen Harris</i>
1:30	Ideas for an improved relationship between the nursery industry and natural areas managers. <i>Michael Yanny</i>	Mechanical brush mowers and other devices for woody species control. <i>Roh Kurowski</i>	Using volunteers for invasive species land management (e.g. "tug-a-suckle"). <i>Scott Johnson</i>
2:00	Linking horticulture and ecology to prevent plant invasions: voluntary codes of conduct. <i>Kayri Havens</i>	Utilizing rotational cattle grazing in oak savanna restoration. <i>Emily S. Kathol</i>	Using volunteers to collect data about Iowa's invasive species. <i>Christopher W. Evans</i>
2:30	Panel Discussion: How do plant related industries view the problem of invasive plants and how will they respond? <i>S. Lehnhardt, M. Yanny, M. Casler, K. Havens, and J. Repsa</i>	Sheep and goat grazing to control invasive plants. <i>Brian Pillsbury</i>	Panel Discussion: Tips and techniques for recruiting and motivating volunteers. <i>K. Harris, S. Johnson, C. Evans, and M. Lerman</i>
3:00	Break	Break	Break
	INVASIVE PLANT EDUCATION Moderator: Mandy Beall	CONTROL METHODS FOR INVASIVES Moderator: Matt Zine	INVASIVES POLICIES - STATE Moderator: Bonnie Harper-Lore
3:30	Invasive species as resource for academically based experimentation and service learning. <i>Bergwerf and Warners</i>	Panel Discussion: New approaches for controlling grassland invasive forbs. <i>Willis Brown, Mike Engel, and Jerry Doll.</i>	Cooperative efforts between the horticultural industry and exotic pest plant council in Florida. <i>Doria R. Gordon</i>
4:00	Not in our woods: a model for educating woodland owners about invasives. <i>Gigi La Budde</i>		Minnesota's exotics experience: a state case study. <i>Jay Rendall</i>
4:30	Clean boats, clean waters. <i>Laura Felda and Mandy Beall</i>		Developing a Wisconsin noxious weed law. <i>Dan Wilson</i>

ROOM →	Hall of Ideas H	Hall of Ideas I	Hall of Ideas J
TIME ↓	REED CANARY GRASS SPREAD Moderator: Joy Zedler	BIOCONTROL OF INVASIVE PLANTS Moderator: Derek Strohl	FUNDING AND RESOURCES FOR INVASIVES Moderator: Michael Engel
8:00	Factors that influence dominance by reed canary grass (<i>Phalaris arundinacea</i>) in wet meadows. <i>Suzanne Kercher</i>	The educational uses of purple loosestrife in biocontrol in the high school classroom. <i>Gregory Bisbee and John Rhude</i>	Wisconsin's forest tax laws and their implications for natural community restoration. <i>Bradley M. Hutnik</i>
8:30	Mapping wetlands dominated by reed canary grass using Landsat thematic mapper imagery. <i>Kevin Willis</i>	Biological control of purple loosestrife in Minnesota (1992-2003) and the potential for biological control of European buckthorn. <i>Luke C. Skinner</i>	Wildlife habitat restoration on private lands: how the U.S. Fish and Wildlife Service can help combat invasive species. <i>Michael W. Engel</i>
9:00	Processes of floristic degradation in urban and suburban wetlands in northwestern Indiana. <i>Young D. Choi</i>	Biological control of garlic mustard: a status report and what's next? <i>Bernd Blossey</i>	USDA program assistance opportunities. <i>Robert D. Weihrouch</i>
9:30	Break	Break	Break
	REED CANARY GRASS CONTROL Moderator: Alice Thompson	BIOCONTROL OF INVASIVE PLANTS Moderator: Derek Strohl	PREDICTION & ASSESSMENT OF INVASIVES Moderator: Ellen Jacquart
10:00	Panel discussion: Reed canary grass control. <i>Arthur Kitchen, Craig Annen, and Dan Spuhler.</i>	Biological control of leafy spurge (<i>Euphorbia esula</i>) on Fort McCoy. <i>David J. Beckmann</i>	The trade in live freshwater organisms in the Upper Midwest: what species are involved, what risks are posed? <i>Reuben P. Keller</i>
10:30		Biological control of Eurasian water-milfoil with herbivorous insects. <i>Raymond M. Newman</i>	Weeds to watch for: plants that may have the potential to become invasive in the Upper Midwest. <i>Kelly Kearns</i>
11:00		Rose rosette disease as a potential biological control agent for multiflora rose. <i>Adrian Barta</i>	Developing an invasive plant policy: Chicago Botanic Garden's experience. <i>Kayri Havens</i>
11:30	Invasive Plants Association of WI Meeting	Lunch	Lunch
	HERBICIDES FOR INVASIVE PLANTS Moderator: Ursula Petersen	INVASIVES AFFECTING FORESTS Moderator: Mariquita Sheehan	PREDICTION & ASSESSMENT OF INVASIVES Moderator: Ellen Jacquart
1:00	So you've decided to use an herbicide: what are the basics to ensure success and safety? <i>Jerry Doll</i>	Weeds in the woods. <i>Gary Fewless</i>	Modeling the spread of invasive plants on a frequently disturbed military training site, Little Falls, MN. <i>Jill E. Babski</i>
1:30	Herbicides: The do's, the don'ts, the how's and how nots to timing and additives for achieving the best results. <i>Rick Schulte</i>	Skid trails and haul roads and their influence on plant richness and composition. <i>Mariquita Sheehan</i>	Community involvement in controlling Great Lakes invasive coastal plants. <i>Jaime Corbisier</i>
2:00	Alternatives to conventional herbicides. <i>Steve Glass</i>	Exotic species in Wisconsin forest understory communities: what a difference 50 years can make. <i>Tom Rooney</i>	Efficient and effective monitoring of invasive plant species. <i>Mandy Tu</i>
2:30	Subtle biological effects of common herbicides. <i>Warren P. Porter</i>	Non-native invasive species on eastern national forests. <i>Nancy Berlin and Rita Beard</i>	National and regional efforts to inventory, map and assess invasive plants - an update. <i>John M. Randall</i>
3:00	Break	Break	Break
	PHRAGMITES GENETICS AND ID Moderator: Chris Reyes	INVASIVES AFFECTING FORESTS Moderator: Mariquita Sheehan	PREDICTION & ASSESSMENT OF INVASIVES Moderator: Ellen Jacquart
3:30	Using morphological characteristics to distinguish invasive introduced genotypes of <i>Phragmites australis</i> from native North American genotypes. <i>Bernd Blossey</i>	Eliminating and harvesting black locust from your forest. <i>Juris Repsa</i>	Assessing the invasive plant species threat in Indiana. <i>Ellen M. Jacquart</i>
4:00		Incorporating invasive species in forestry planning and practice on private lands. <i>Fred Clark</i>	Prioritizing invasive plants for management. <i>Miles Falck</i>
4:30	<i>Phragmites australis</i> : a native invasive species in Lake Superior wetlands? <i>Elizabeth A. Lynch</i>	North central woodland invasive species survey. <i>Christopher W. Evans</i>	Development of the IPAW working list of the invasive plants of Wisconsin. <i>James A. Reinartz</i>

ROOM →	Meeting Room K	Meeting Rooms L-M	Meeting Room N
TIME ↓	STATE NATURAL AREA PROGRAMS Moderator: Michael Scott	FIRE FORUM Moderator: Rich Henderson	RARE PLANT CONSERVATION Moderator: Darcy Kind
8:00	Wisconsin's State Natural Areas Program: origins and early development. <i>Susan O. Haswell</i>	Wildland fire in Illinois and adjacent Midwestern states, 1673-1865. <i>William E. McClain</i>	Natural areas and rare species of the Milwaukee County Park system: there's more to this sense of place than beer and bikes. <i>Daniel R. Spuhler</i>
8:30	Status of state natural area programs. <i>Richard Thom</i>	Fire and community structure: 25 years of change in a Great Lakes pine forest. <i>Alan Haney</i>	The influence of population size and density on pollinator service in <i>Agalinis skinneriana</i> (Orobanchaceae). <i>Hannelore Artiomow</i>
9:00	Wisconsin's State Natural Areas Program: a model? <i>Randy Hoffman</i>	Fire disturbance and vegetation history in the Northern Lake States with emphasis on northern Wisconsin. <i>David J. Mladenoff</i>	Conservation efforts for the Illinois-threatened <i>Agalinis auriculata</i> : how much do we know? <i>Brenda Molano-Flores</i>
9:30	Break	Break	Break
	FEN AND MEADOW MANAGEMENT Moderator: Evelyn Howell	FIRE FORUM Moderator: Rich Henderson	RARE PLANT CONSERVATION Moderator: Darcy Kind
10:00	Propagation and restoration of fen orchids. <i>Scott Weber</i>	Determining an appropriate fire frequency to restore and maintain oak savannas in two Ontario provincial parks. <i>Tracey Etwell</i>	A tale of thistles: one park's conservation of a threatened plant (<i>Cirsium pitcheri</i>). <i>Carolyn S. Rock</i>
10:30	Mowing and herbicide as aids in fen restoration. <i>Richard Dunbar</i>	Effects of prescribed burning and thinning on groundlayer vegetation in a dry-mesic and dry oak forest in southern Wisconsin. <i>Sarah M. Stackpoole</i>	Plants of concern: volunteers monitor rare species in a regional program (northeast Illinois). <i>Susanne Masi</i>
11:00	Hydrologic alteration, vegetation change and restoration possibilities at Cherokee Fen, Madison WI. <i>Quentin Carpenter</i>	Vegetation response of an Ozark <i>Pinus echinata</i> woodland to prescribed fire and thinning. <i>Brian W. Loges</i>	Private landowners - guardians of biodiversity: Endangered Resources Landowner Contact Program. <i>Darcy D. Kind</i>
11:30	Lunch	Lunch	Lunch
	INTERNATIONAL ISSUES Moderator: Abi Rome	EFFECTIVE COMMUNICATION Moderator: Vickie Larson	PRIVATE LANDS MANAGEMENT Moderator: Darcy Kind
1:00	Controlling invasive alien plants in the Cape Peninsula National Park, South Africa. <i>Andrew E. M. Brown</i>	The Honey Creek Project: balancing act. <i>M. Kathleen Sullivan</i>	Panel discussion: Forward to nature: private landowners managing land for natural diversity. Private landowners interested in the plant and animal communities that inhabit their property approach land management from differing perspectives and with a wide range of resources and knowledge. Landowners: <i>Penelope and Gary Shackelford and John Van Altena</i> Land Managers: <i>Jesse Bennett, Ron Martin, and Jae Maxfield</i>
1:30	Sustainable forest management and biodiversity conservation in the rain forest of Misiones Province, Argentina. <i>Diego Quesada-Allué</i>	Wetlands Reserve Program: management and the relationship between landowner satisfaction, ecological and socioeconomic factors. <i>Ken Forshay</i>	
2:00	Implementation of South Africa's river health programme in the unique river systems of the Cape Floral Kingdom. <i>Wietsche Roets</i>	<i>University Wild</i> : a video tour of the campus natural areas at the University of Wisconsin-Madison. <i>Tom Sinclair</i>	
2:30		People, plants and Table Mountain: the social impacts of managing invasive alien plants in the Cape Peninsula National Park, South Africa. <i>Andrew E. M. Brown</i>	
3:00		Break	
		INVASIVE PLANTS - CONTRIBUTED PAPERS Moderator: Gretchen Meyer	
3:30		A strategic approach for managing invasive plant species at nature reserves. <i>Alan T. Carpenter</i>	
4:00		Public/private partnerships to fight invasive species. <i>Mary Maguire Lerman</i>	
4:30		Does escape from natural enemies contribute to invasiveness of introduced plants? A test with <i>Solidago gigantea</i> . <i>Gretchen Meyer</i>	

ROOM →	Meeting Room O	Meeting Rooms P-Q	Meeting Room R
TIME ↓	TOOLS FOR INVASIVE PLANT CONTROL Coordinator: <i>Tom Boos</i>	ETHICS FOR A SMALL PLANET WORKSHOP Moderator: <i>Jane Elder</i>	INVERTEBRATE DIVERSITY Moderator: <i>Susan Borkin</i>
8:00	Tools for managing, controlling, and eliminating invasive plants will be on display all day. The display includes new, innovative, commercially available tools as well as homemade devices. Tools will be accessible for hands-on examination. Information on purchasing tools and constructing your own will be available.	Ethics for a Small Planet Workshop: Communicating the Ethical and Theological Reasons for Protecting Biodiversity.	Terrestrial invertebrates associated with <i>Phragmites australis</i> and <i>Typha latifolia</i> in three wetlands along Green Bay, Lake Michigan. <i>Jeanette M. Jaskula</i>
8:30		A presentation for environmental advocates who are interested in better communicating about the ethical foundations for protecting biodiversity.	The ecology of <i>Tachysphex pechumani</i> , a rare sand-dwelling parasitoid wasp. <i>Erin K. Moan</i>
9:00			Parasites of snails as indicators of estuarine bird communities. <i>Kevin D. Lafferty</i>
9:30			Break
		Break	Break
		LAND ETHICS INTERPRETED Moderator: <i>Charlie Nilon</i>	VERTEBRATE CONSERVATION Moderator: <i>Jeff Tracey</i>
10:00		Ecological extension projects: a practical way to develop a local land ethic. <i>Brian W. Pruka</i>	Breeding by snowy plovers following protection from human disturbance. <i>C. P. Sandoval</i>
10:30		Developing a land ethic in students by restoring prairies, woodlands, and wetlands on Wisconsin schoolyards. <i>Todd F. Miller</i>	Using analysis and modeling of mammalian carnivore movement to assess landscape connectivity in the southern California ecoregion. <i>Jeff Tracey</i>
11:00		Collecting memories as a tool for developing a sense of place. <i>Susan C. Gilchrist</i>	Habitat selection of grassland birds in northwest Illinois: effects of plant diversity, vegetation structure, and landscape variables. <i>Dan Wenny</i>
11:30		Lunch	Lunch
		LAND ETHICS INTERPRETED Moderator: <i>Rebecca Schroeder</i>	NATURAL AREA RESTORATION Moderator: <i>Mark Martin</i>
1:00		Wildlife need habitat off limits to humans! <i>Michael J. Vandeman</i>	Wetland restoration under the Wetlands Reserve Program (WRP) in Wisconsin. <i>Emily C. Steel</i>
1:30		Preserving natural sounds in National Parks. <i>Richard D. Horonjeff</i>	Ecological reclamation of a sand mine at Grand Mere State Park in southwest Michigan. <i>Glenn R. Palmgren</i>
2:00		Preserving the history of the land: the interface of cultural and natural history in natural lands management. <i>Robert P. Nurre</i>	Not just a pretty face redux: utilizing native plants for erosion control on shaded slopes. <i>Daniel R. Spuhler</i>
2:30			Management strategies for protecting natural areas within developing urban environments. <i>William W. Stoll</i>
3:00		Break	
		AQUATIC EXOTIC PLANT ID WORKSHOP Coordinators: <i>Laura Herman & Deb Konkel</i>	
3:30		Aquatic exotic plant identification workshop. This a 90-minute hands-on workshop to identify aquatic exotic plants will cover aquatic exotics that currently infest waters in the Great Lakes region as well as others that on their way here.	
4:00			
4:30			

Poster Presentations

Wednesday, September 24 - Thursday, September 25

Capitol Promenade

- The University of Wisconsin-Stevens Point's Robert W. Freckmann Herbarium website. *Merel Black*
- NPS National Natural Landmarks in the Midwest region. *Janet Eckhoff*
- Coastal wetlands web pages to assist conservation planning for Wisconsin. *Drew Feldkirchner, Eric Epstein, Elizabeth Spencer, Andy Paulios, and Lena Arvola*
- Identifying significant ecological sites: harnessing the local knowledge of biodiversity. *Andrew P. Galvin*
- Using cattle to restore oak savanna/woodland in southern Wisconsin. *Janet Hedtcke and Josh Posner*
- Effects of human activity on bird distribution in an Illinois nature preserve. *Vicki Hedrick and Paul E. Brunkow*
- Connecting education with applied conservation practices: an intern program. *Lara Jefferson, Bianca Rosenbaum, and Kay Havens*
- Prioritizing invasive species.* *Terri S. Killeffer*
- Thirty years of community change in an Illinois old growth forest.* *Ian P. Kirwan and Anton G. Endress*
- Breeding bird community responses to a small shrubland-to-prairie restoration. *Thomas V. Lerczak*
- Establishment and persistence of prairie species at varying seeding densities. *Amy Martin, John Harrington, and Steve Swenson*
- Management of white-tailed deer herbivory at UWM Field Station. *Heather O'Brien and Gretchen Meyer*
- Evaluation of prescribed fire and forest harvest as woodland restoration tools in the Lower Missouri Ozarks. *Rhonda L. Rimer*
- Progress report for the Prairie Invertebrate Biodiversity Inventory: work in Wisconsin. *Scott B. Sauer, Eric D. Maurer, Richard A. Henderson, and Richard A. Bautz*
- Off-road vehicles as dispersal agents for exotic species in a forested landscape.* *Tom Rooney*
- Nonrandom patterns of plant distribution in Illinois forests with respect to site conservation value and tree basal area. *Greg Spyreas, Jeffrey W. Matthews, Connie Carroll, and James Ellis*

* Also presented Saturday

Saturday, September 27

Capitol Promenade

- Mapping and modeling the current and potential distributions of invasive plants from China. *Thomas Albright, Qinfeng Guo, Susan Price, and Zhilaing Zhu*
- Landscape-scale invasive brush removal at Green River State Wildlife Area. *R. Todd Bittner*
- An evaluation of herbivorous insect performance on native (US) and introduced (European) *Solidago gigantea*. *Robert Clare and Gretchen Meyer*
- Assessment of the herbaceous community and presence of *Alliaria petiolata* at Collins Woods. *Peter J. Frank and Anton G. Endress*
- Morphology and plant communities of *Alliaria petiolata* in native and invaded habitats. *Elizabeth Gault and Robert Wiedenmann*
- Invasion of Norway maple into Mackinac Island State Park. *Jennifer Griggs, Steven R. Wangen, and Christopher Webster*
- The Center for Exotic Species at Michigan Technological University. *Jordan M. Marshall and Andrew J. Storer*
- First graders assess the impacts of garlic mustard on native plants. *Liana Kearns McClintock, Paisley Koch, Maya Banks, Carina Vargas-Nunez, et. al., and Kelly Kearns*
- The use of corn gluten to prevent garlic mustard germination. *Jason P. Moser*
- Biological control of purple loosestrife in Illinois. *Susan L. Post, Robert N. Wiedenmann, Charles G. Helm, David J. Voegtlin, Michael R. Jeffords and Dylan Maddox*
- Determining the feasibility of prescribed burning to affect the bud bank of reed canary grass (*Phalaris arundinacea* L.) populations. *Chris Reyes and Paul H. Zedler*
- Invasion and displacement of native vegetation by common buckthorn: toward a mechanistic understanding. *J. Winkelmann, G. Meyer, J. Reinartz, and S. Schnitzer*

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