

# RESTORATION NEWS MIDWEST

*Newsletter of the Midwest-Great Lakes Chapter of the Society for Ecological Restoration – September 2012, Volume 5, Issue 1*

## PRESIDENT'S CORNER

As the recently elected President of our Chapter, I am pleased to report to the membership that the Board has been making excellent progress in several areas. Thanks to the efforts of Board Members David Benson, and Rocky Smiley the chapter is now incorporated as a non-profit organization in the state of Indiana. The central administration of SER (Society for Ecological Restoration) assisted with this process by reviewing and providing comments on our initial draft of the articles of Incorporation. Incorporation is a necessary step as we work towards achieving federal non-profit status (i.e., becoming a 501c3 organization) for tax purposes. Last year we paid \$1,600 in federal taxes because we were not recognized by the Internal Revenue Service (IRS) as a non-profit organization. Jen Lyndall, our treasurer, is coordinating our work to become a 501c3 organization and has completed most of the information required in the application form. Rocky has proposed changes in our Bylaws to ensure the document meets the expectations of the IRS for a non-profit organization. These changes will be considered by the Board for approval.

Steve Bosak, the newly appointed Executive Director of SER, was a welcomed participant in our July Board of Directors' conference call. Among the topics Steve talked about was the 2013 Annual Meeting of SER to be held in Madison, Wisconsin October 6-11, 2013. The Midwest-Great Lakes Chapter's SER 2013 Committee, which includes Board Members Todd Aschenbach, Nancy Aten, and Autumn Sabo, and is chaired by Steve Thomforde, is assisting the Local Organizing Committee and SER with preparations for SER 2013 Annual Meeting. Steve Bosak indicated that SER is looking for sponsors, partners, field trips, and training opportunities. Steve would like to have chapter members make recommendations

on potential sponsors. Please send your suggestions to Steve via email ([steve@SER.org](mailto:steve@SER.org)). I strongly encourage the Chapter membership to attend the meeting which will give you the opportunity to obtain an international perspective on the science and practice of ecological restoration and to celebrate the 25th anniversary of SER in Madison, Wisconsin where the society began. Field trips and presentations will highlight the ecology and restoration projects of the local region.

Board member John Shuey has agreed to serve as the chair of the Membership Committee, with the goal of increasing Chapter membership. Currently, we have 180 members in our Chapter and of these 70 are Chapter only members. Often, Chapter only members join when the Chapter's Annual Meeting is held near their home and discontinue their membership the following year. We would like to encourage these individuals to continue their membership and hope that the restoration information we provide in our newsletter and on the website will encourage them to support the Chapter by retaining their membership. The Chapter also will be looking to increase membership among students and professionals actively involved in restoration activities.

We have formed a Five-year Strategic Planning Committee. The goal of this committee is to develop a strategic plan for the Chapter over the next five years (2013 to 2018). The Committee members include Board members Troy Anderson, Nancy Aten, Hua Chen, Chris Lenhart, Rocky Smiley, and I. We will appreciate receiving ideas about changes you would like to see in the Chapter's current policies so that the Chapter can better serve your professional needs.

*Roger Anderson, President*

## OVERVIEW OF THE 2012 ANNUAL CHAPTER MEETING

The fourth Annual Meeting of the Midwest-Great Lakes SER Chapter was hosted by University of Michigan's School of Natural Resources and Environment and the Matthaei Botanical Gardens & Nichols Arboretum on May 4 to 6, 2012. The meeting was a great success with 138 attendees from nine states (MI, IL, WI, IN, OH, MN, MD, PA, and UT). The goal of the meeting was to explore the role of ecological restoration in connecting nature and culture in human dominated environments. It was a very productive three days that included two plenary sessions, a keynote presentation, two symposia, two workshops, 20 contributed poster presentations, 33 contributed oral presentations, a business meeting, an awards ceremony, a tour of the Matthaei Botanical Gardens, and three off-site field trips to local restoration sites in Michigan. The focus of many meeting events was ecological restoration in urban and suburban lands and waters.

The meeting began with the Opening Plenary Session on "*Restoration of Urban and Suburban Habitats*" that consisted of presentations by Lisa Brush (The Stewardship Network), John Hartig (Detroit River International Wildlife Refuge), and Lisa Williams (U.S. Fish and Wildlife Service). These three presentations discussed the challenges of restoration within urban and suburban habitats, restoration within the Detroit River International Wildlife refuge, urban restoration issues related to natural resource damage assessment (NRDA) issues, and how these restoration efforts provide opportunities to connect people with nature within the Great Lakes region. The session concluded with a panel discussion where the speakers answered questions from the audience.



*Lisa Brush and Lisa Williams answer questions during the Panel Discussion (Photo Credit – University of Michigan SNRE)*

After a short break participants had the choice of symposia and workshops on Friday afternoon. One symposia organized by Shana Byrd (The Wilds) consisted of three presentations by Shana, Erin Mittendorf (The Stewardship Network), and Kurt Dreisilker (The Morton Arboretum) and a panel discussion that focused on developing volunteer conservation programs as a way of implementing ecological restoration projects and connecting people with nature. A second symposia organized by Cody Fleece (Stantec Consulting) and Rocky Smiley (USDA-ARS) consisted of five presentations by Cody, Jennifer Tank (University of Notre Dame), Rocky, Greg Corace (U.S. Fish and Wildlife Service) and Jessica Hickey (Davey Resource Group) and a question and answer session that focused on the current state of knowledge regarding the availability of deadwood, its management in stream and forested ecosystems, and how this information can be applied to restoration efforts. One workshop offered by Robert Williams (Phragmite.org) focused on practical aspects of common reed (*Phragmites australis*) control on a small scale and cost-efficient basis for property owners and volunteer groups. The second workshop provided by Robert Allison (Cardno JFNew Native Plant Nursery) involved methods for collecting, handling, cleaning, testing, and storage of high quality native seed and plant

materials for restoration projects.



*Shana Byrd discusses developing volunteer programs during one of Friday's Symposia  
(Photo Credit – University of Michigan SNRE)*

The evening poster session consisted of 20 posters that encompassed topics ranging from invasive species impacts to pollinator responses to restoration to the use of grazing as a restoration tool. A reception also gave the meeting participants a chance to view sponsor exhibits and to socialize with colleagues during the poster session.



*Meeting attendees enjoying the Sponsorship Reception and Poster Session*

After dinner Helen Taylor delivered the keynote presentation titled “A Great Lakes Strategy: Embracing People, the Economy, and Nature”. Dr. Taylor’s presentation provided an introduction to The Nature Conservancy’s

Great Lakes Project. This project is a bi-national collaboration that approaches the management and restoration of the Great Lakes as a whole system and focuses on protecting and restoring watersheds, coastal ecosystems, northern forests, and native fisheries while combating threats from aquatic invasive species and climate change. This collaboration involves universities, agencies, corporations, private institutions, public institutions, and decision makers to go beyond building protected areas to a whole-systems approach to working lands. Dr. Taylor provided examples of the project’s work in the sustainable forestry, agriculture, watershed management, and coastal ecosystem management.



*Helen Taylor during her Keynote presentation*

Saturday morning began with the concurrent oral presentation sessions. We had eight sessions of 33 contributed oral presentations. Each session consisted of four to five presentations that focused on either on 1) invasive species; 2) grassland, savanna, and forest restoration; 3) lake, pond, stream, and wetland restoration; and 4) education, outreach, and partnerships.

The Annual Chapter Business Meeting was held during lunch. Jennifer Lyndall (Treasurer) provided participants with the most recent information on the Chapter’s financial status. Rocky Smiley then provided an updates on



potential changes to Chapter dues in the future in response to changes in SER dues structure and policy and on potential locations for the 2013 Chapter Meeting. Stephen Thomforde followed with a report from the SER 2013 Committee that described upcoming plans for SER's World Conference on Ecological Restoration that will be held in Madison, Wisconsin. Steve concluded his report with a call for volunteers to serve on the Local Organizing Committee for SER 2013.

Hua Chen conducted the awards ceremony and announced the winners of the three student awards. The winners were: 1) Sarah Roley (University of Notre Dame) Best Student Oral Presentation; 2) Mitch Lettow (Michigan State University) - Best Student Poster Presentation; and 3) Marissa Vine and Michael Zueger (University of Wisconsin-Stevens Point) Student Presenters Who Traveled the Farthest.



*Hua Chen presents Mitch Lettow with the Best Student Poster Presentation Award*

Hua also recognized and thanked Stephen Thomforde (Wisconsin Representative), Geoff Morris (Illinois Representative), and Young Choi (Annual Meeting Chairperson) for their service to the Chapter. The Business Meeting concluded with the announcements of the results of the 2012 Elections. The following individuals were elected to the Chapter Board of Directors: Roger Anderson (President);

Troy Anderson (Secretary); Cody Fleece (Ohio Representative); Xiaoyong Chen (Illinois Representative); Nancy Aten (Wisconsin Representative); Rocky Smiley (At-Large Representative); Todd Aschenbach (At-Large Representative).



*Hua Chen thanks Young Choi for his hard work in organizing the 2010, 2011, and 2012 Chapter Meetings*

One of the meeting highlights was the Joint Plenary Session and Matthaei Botanical Gardens Tour that focused on the conservation and restoration of the eastern massasauga rattlesnake (*Sistrurus catenatus*). The Plenary Session consisted of presentations by representatives of The Ecological Consulting Group, Michigan State University, Forest Preserve of Will County (Illinois), and the University of Michigan that provided attendees with an overview of the biology and ecology of the eastern massasauga rattlesnake and information on the habitat management critical for designing conservation and restoration plans for this protected species. The tour of the Matthaei Botanical Gardens provided attendees with an opportunity to witness first-hand rattlesnake survey methods and the management practices being used at the Gardens to restore habitat for this protected species. Truly a memorable moment for many attendees occurred after one of the tour leaders captured a large female eastern massasauga and

then allowed everyone to touch the snake. It was inspiring to witness and learn about restoration efforts being made to benefit snakes, especially since these animals have been vilified throughout history.



*Tour Leader Tom Anton with large female eastern massasauga rattlesnake (top photo) and tour participants eagerly touching the snake (bottom photo)*

Sunday was devoted to offsite field trips to restoration sites within Grosse Ile, Monroe County, and Ann Arbor, Michigan. The Detroit River International Wildlife Refuge field trip highlighted restoration projects within the only international wildlife refuge in North America. John Hartig and Allison Krueger lead participants on a tour of the refuge, its Ramsar Wetland, and a restoration site that was formerly an industrial manufacturing site. For more information on the restoration activities

being conducted in the Detroit River International Wildlife Refuge see the next article below.

The Coastal Wetlands field trip focused on work being conducted within The Nature Conservancy's Erie Marsh Preserve. This preserve and its surrounding landscape contain some of the last remaining expanses of coastal wetlands and associated nearshore bottomlands in the highly urbanized and agricultural area between Detroit, Michigan and Toledo, Ohio. Chris May and Gary Crawford led participants on a tour of the Erie Marsh Preserve and discussed restoration projects that are components of a landscape-scale effort by The Nature Conservancy and its partners to plan, prioritize, coordinate, and implement restoration projects at the "whole system" scale.

The Ann Arbor Wilds field trip included visits to the Scarlett-Mitchell Nature Area, Mary Beth Doyle Park and Wetland Preserve, and the Mallets Creek Stream Restoration site. Lara Spears, Jacco Gelderloos, Pat Frey, Judy Schmidt, and Manfred Schmidt led the tour of the Scarlett-Mitchell Nature Area and discussed examples of the ongoing volunteer biological monitoring, urban prescribed burn methods, and use of volunteers to assist with invasive species control and other restoration practices. Harry Sheehan led the tour of the Mary Beth Doyle Park and Wetland Preserve and shared with participants the design of this wetland preserve, park enhancements, and ongoing post construction activities. Shawn Severance and Harry Sheehan led participants on a tour of the Mallets Creek Stream Restoration project located at the County Farm Park. Participants learned about the restoration plan for the site and the practices used for improving water quality, reducing flow volumes, and stabilizing the stream channels.

We are grateful for the support provided by our

gracious meeting host (University of Michigan's School of Natural Resources and Environment and the Matthaei Botanical Gardens & Nichols Arboretum) and our 13 meeting sponsors (Genesis Nursery, Grand Valley State University, Stantec, Environmental Consulting and Technology, ENVIRON, Michigan Chapter of The Nature Conservancy, Prairie Restorations, Applied Ecological Services, Island Press, King and MacGregor Environmental, Cardno JFNew, Davey Resource Group, Streamside Ecological Services). We are also thankful for the contributions of all presenters, moderators, tour leaders, volunteers, and attendees towards the success of the meeting.

*Rocky Smiley, At-Large Representative,  
Young Choi, Chair of the 2012 Annual  
Meeting Committee, and Robert Grese,  
University of Michigan*

## **EXTREME MAKEOVER: BROWNFIELD EDITION**

What comes to mind when you think of Detroit – automobiles, Motown, professional sports? Each of those answers is correct, but you may be surprised to learn that the “Motor City” is also becoming well recognized for public-private partnerships for conservation and outdoor recreation through the efforts of the Detroit River International Wildlife Refuge (IWR).

The Detroit River IWR is unique in that it is the only international wildlife refuge in North America and one of the few urban refuges globally. Nearly seven million people live within a 45-minute drive. The Detroit River IWR spans 77 km along the lower Detroit River and western Lake Erie, and is a shared resource between Canada and the United States. The Detroit River alone has 23 islands, numerous wetlands and shoals, critical stopover

habitats for birds, and spawning and nursery grounds for fishes. As a result, the Detroit River corridor supports exceptional biodiversity with 117 species of fish and over 300 species of birds documented within this riverine ecosystem. This exceptional biodiversity and the unique habitats that support it have been recognized in the North American Waterfowl Management Plan, the United Nations Convention on Biological Diversity, the Western Hemispheric Shorebird Reserve Network, and the Biodiversity Investment Area program of Environment Canada and U.S. Environmental Protection Agency.

### *Transformation of an Industrial Brownfield into a Refuge Gateway.*

One good example of conservation leadership in this major urban area is that over a hundred public and private partners have come together over the last eight years to clean up an industrial brownfield and transform it into the Refuge Gateway and future home of the visitor center. Owned by Wayne County and cooperatively managed with the U.S. Fish and Wildlife Service, the Refuge Gateway will serve as a hub for environmental education and outdoor recreational activities, and a model of sustainability. Everything visitors see and do will teach them how to live sustainably.

For 44 years, this 0.2 km<sup>2</sup> site in Trenton, Michigan was operated as a Chrysler manufacturing facility for brake pad adhesives for automobiles, blended oils, paints, sealers, powdered metal parts, asbestos brake pads, and phenolic brake pistons. Historical aerial photographs show that fill was placed on the eastern portion of the property from the 1940s to 1967. This literally filled approximately 0.04 km<sup>2</sup> of wetlands and extended the upland portion of the property eastward into the Detroit River by 0.3 km. The Refuge Gateway is located at the mouth of the Detroit River and is adjacent to the Humbug Marsh.

The Chrysler Plant was deactivated in 1990 and underwent removal of all above-ground structures. In 1994, Chrysler Corporation and the Michigan Department of Natural Resources entered into a Consent Decree. The Consent Decree is a legally binding document describing Chrysler Corporation's remedial responsibilities, the extent of continuing liability for this site, and long-term due care obligations. On-site remedial activities included removal and isolation of both inorganic (i.e., asbestos, arsenic, barium, cadmium, lead, cyanide, thallium) and organic (i.e., benzene, chlorobenzene, methylene chloride, toluene, vinyl chloride, xylene) contaminants.

Subsequently, the site was cleaned up by the Chrysler Corporation at a cost of approximately \$12 million to meet State of Michigan standards for industrial and commercial use. Pursuant to the Consent Decree, restrictive covenants were placed on five areas of the site totaling 0.06 km<sup>2</sup>. These restrictive covenants limit future activities and use of the five areas due to subsurface contamination. For example, digging in the capped areas is not allowed because it might release contaminants or exacerbate environmental problems. The restrictive covenants will remain in effect for any future transfer of the property.



*The Refuge Gateway before daylighting Monguagon Creek (Photo Credit: USFWS)*

The site sat vacant as an industrial brownfield for 12 years before Wayne County acquired the site in 2002 for development as the Refuge Gateway. This acquisition was completed in partnership with the U.S. Fish and Wildlife Service. In 2003, Wayne County, in partnership with the U. S. Fish and Wildlife Service initiated a master planning process for the Refuge Gateway that was completed in 2004. The goal of the master plan was to be a model of sustainable redevelopment by providing a blueprint for the cleanup and restoration work necessary to establish the site as an ecological buffer for the adjacent Humbug Marsh and to encourage public uses such as a Leadership in Energy and Environmental Design (LEED)-Certified Visitor Center, a school ship dock, a public fishing pier, a kayak/canoe landing, innovative stormwater treatment system, and greenway trails. Again, everything people would see and do at the Refuge Gateway would teach them how to live sustainably. Further, the site would be integrated with Humbug Marsh in a fashion that would help Wayne County, the U.S. Fish and Wildlife Service, and other partners inspire and teach the next generation about urban conservation and sustainability.

All cleanup and restoration activities were completed in fall 2012. These activities included: 1) cleanup and capping of contaminated lands; 2) daylighting a creek and constructing a retention pond and emergent wetland to treat stormwater prior to discharge into the Detroit River; 3) restoring coastal wetland, riparian buffer, and upland habitats; and 4) constructing two roads, hiking/biking trails, and a kayak/canoe landing to offer wildlife-compatible public uses that enable visitors to experience this internationally-recognized natural resource.





*The Refuge Gateway after daylighting Monguagon Creek (Photo Credit – Jerry Jourday)*

This transformation of the Refuge Gateway can best be described as an “extreme makeover.” Quantitative restoration accomplishments achieved as part of this transformation include: 1) restoring of 0.06 km<sup>2</sup> of wetlands within a river corridor that has lost 97% of its coastal wetland habitat; 2) removal of *Phragmites* along 4.0 km of shoreline; 3) restoring of 0.1 km<sup>2</sup> of upland buffer habitat; and 4) removal of other invasive species (e.g., buckthorn, garlic mustard) within 0.2 km<sup>2</sup> of upland habitat.

*Expanding the Ecological Buffer of a Ramsar Wetland of International Importance*

Of particular interest is that the Refuge Gateway is located adjacent to the Detroit IWR Refuge’s 1.7 km<sup>2</sup> Humbug Marsh Unit. In the mid-1990s, a developer purchased Humbug Marsh with the primary intent of building a subdivision, a marina, a golf course, and a bridge to Humbug Island. The proposed development required several permits and requisite public hearings. The first public hearing was held at Gibraltar Carlson High School in September 1998 and attracted nearly 1,000 people. People from all over Michigan attended, creating traffic jams and causing the fire marshal to lock the doors of the public hearing to prevent a larger crowd. The issue at hand was residential development of the last kilometer of natural shoreline on the U.S. mainland of the Detroit River – Humbug Marsh.

The vast majority of these citizens strongly opposed the development and was in favor of preserving the rich and diverse coastline that was part of their home and heritage. Indeed, citizens and grassroots organizations banded together for nearly ten years in a campaign to preserve Humbug Marsh. This tremendous public support was a key catalyst in establishing the Detroit River IWR. The people spoke out in opposition, the permits were not issued, and eventually Humbug Marsh was purchased in 2004 for the Detroit River IWR. Humbug Marsh now is part of the National Wildlife Refuge System that includes over 550 wildlife refuges and over 607,000 km<sup>2</sup>, and is protected in perpetuity for wildlife and for people to enjoy through wildlife-compatible public uses. Today, it stands as a site of great determination and pride by those in the region.

Following the preservation of Humbug Marsh in 2004, the Michigan Department of Natural Resources and Environment and the U.S. Fish and Wildlife Service spent nearly three years compiling scientific data on Humbug Marsh that was used as the rationale for obtaining a “Wetland of International Importance” designation under the international Ramsar Convention. In 2010, Humbug Marsh was designated as a Ramsar Convention “Wetland of International Importance.” There are over 2,000 such Ramsar designations worldwide, 34 in the United States, and only one in Michigan – Humbug Marsh.



The Ramsar Convention is an international treaty signed in Ramsar, Iran in 1971 that provides a framework for voluntary international protection of wetlands. Countries signing the treaty must demonstrate their commitment to the conservation and wise use of wetlands as a contribution toward sustainable development throughout the world. Humbug Marsh is considered an internationally important wetland because of its ecological importance in the Detroit River corridor and the Great Lakes Basin Ecosystem. Indeed, the Michigan Natural Features Inventory has ranked Humbug Marsh and other wetlands with similar ecological features as globally imperiled wetland habitats. Natural history surveys have documented that Humbug Marsh serves as vital habitat for 51 species of fish, 90 species of plants, 154 species of birds, seven species of reptiles and amphibians, and 37 species of dragonflies and damselflies.

### *Conclusions*

This urban conservation work in the industrial heartland is very exciting and attracting numerous corporate and community partners. The Detroit River IWR has been recognized by the White House Conference of Cooperative Conservation for its leadership in use of public-private partnerships for conservation and outdoor recreation. Internationally, it is helping build North America's only international wildlife refuge and helping clean up a known "Area of Concern" or pollution hotspot within the Great Lakes. Locally, it is helping change the perception of the region from that of a "rust belt" city to one of a leader of urban conservation efforts that reconnect people to nature, improve quality of life, showcase sustainable redevelopment, and enhance community pride. At a very human level, the Detroit River IWR is helping develop the next generation of conservationists and sustainability entrepreneurs through its

environmental education, stewardship, and outreach efforts.

*John Hartig and Allison Krueger,  
Detroit River International Wildlife Refuge*

## **REGIONAL GROUP CALLS FOR STREAM RESTORATION DIALOGUE**

In a period of intense human modification to landscapes, rivers and streams are undergoing changes as reflected in the altered hydrology, sediment transport dynamics, and geomorphology exhibited by many streams and rivers. Most people recognize that these sorts of changes generally degrade a water body and result in reduced ecosystem function and habitat, reduced ability of the channel to sustain itself naturally, and/or reduced water quality. Stream and river restoration has responded by evolving into a field of intense activity over the past three decades. It is estimated that over 1 billion dollars is spent annually on stream restoration projects.

Yet, stream restoration is complicated. It is complicated in that understanding the responses of streams and rivers to restoration involves dealing with numerous influential and interrelated variables. An understanding of geology, geomorphology, hydraulics, chemistry, biology, and ecology is required as well as an understanding of the complex feedbacks among processes. Stream restoration is further complicated in that the term 'restoration' itself is very subjective, despite the efforts of groups like SER to provide a clear definition. What one person/group may think constitutes restoration does not always translate to the definition used by other individuals/groups. Stream restoration is also complicated in the fact that it is an evolving career and field, there are not yet established standards, there are not mandates for post-

restoration monitoring, and there is a severe lack of data on the success (or failure) of restoration projects.

There is a growing need for discussion and professional dialogue on stream and river restoration. The Partnership for River Restoration and Science in the Upper Midwest (PRRSUM – pronounced ‘prism’) is a regional organization that looks to create feedback between stream restoration research and practice. PRRSUM is one of four major regional stream restoration groups that exist within the United States. River Restoration Northwest hosts an annual symposium for the Pacific Northwest region. North Carolina State University hosts the Southeast Stream Restoration conference. The U.S. Fish and Wildlife Service and the Resource Institute host the Mid-Atlantic Stream Restoration Conference. These regional restoration groups attract a unique professional demographic, including regulators, researchers, consultants, educators, watershed managers, and students from multiple scientific and policy backgrounds. PRRSUM was formed in 2008 as a joint initiative of the St. Anthony Falls Laboratory at the University of Minnesota and the National Center for Earth-surface Dynamics. The goal of PRRSUM is to bring together stream restoration practitioners (defined as any professional that works to mitigate impacts within river systems) and scientists to exchange knowledge, share lessons learned, and network with each other to learn about recent advances in stream restoration within the Midwest region. PRRSUM membership is free and open to anyone who is interested in stream and river restoration. See the following webpage for information on how to join ([www.prrsum.org/content/membership-info](http://www.prrsum.org/content/membership-info)).

PRRSUM organizes a three day annual conference called the Upper Midwest Stream Restoration Symposium. To date, there have

been three symposiums – 2010 in La Crosse, Wisconsin, 2011 in Oconomowoc, Wisconsin, and 2012 in Minneapolis, Minnesota. More than 80 professionals attended the first meeting, which focused on a single-track presentation format to encourage discussion on presentation topics within the diverse technical backgrounds of the audience. Over the next two years attendance at the Upper Midwest Stream Restoration Symposium has grown to approximately 130 people.



*View from the audience at the 2012 Upper Midwest Stream Restoration Symposium*

Topics highlighted at the symposium demonstrate the diversity of issues that drive stream restoration efforts in the Midwest. Past topics within contributed and keynote presentations include dam removal, large river management, aquatic organism and habitat management, aquatic organism passage, floodplain connectivity, stream erosion and sediment management, understanding and mitigating agriculture and urban land use dynamics, the economics of stream restoration, and ethics and liability in stream restoration. The Upper Midwest Stream Restoration Symposium also offers pre-symposium half- and full-day short courses for its attendees. Past short courses have encompassed topics such as hydraulic modeling, aquatic organism passage, and stream restoration design guidance. Additionally, the Symposium

provides opportunities for attendees to socialize with one another by organizing an evening social and dinner.



*Attendees enjoy dinner after a full day of presentations*

The 2013 Upper Midwest Stream Restoration will be held in La Crosse, Wisconsin on February 24-27, 2013. The abstract deadline for oral presentations was September 28, 2012, but there is still an opportunity to submit an abstract for a poster presentation. The abstract deadline for poster presentations is January 14, 2013. Registration will open on October 19th, 2012. The Upper Midwest Stream Restoration Symposium presents a unique opportunity to connect with leading stream restoration practitioners and learn about how stream restoration operates within our region. From such dialogues, PRRSUM joins the three other established regional stream restoration groups around the nation in assisting with advancing the science and practice of stream restoration. Visit [www.prrsum.org](http://www.prrsum.org) to learn more about PRRSUM and to get on our mailing list!

*Barbara Burkholder, Partnership for River Restoration and Science in the Upper Midwest*

## **SELECTED CONTENTS OF THE SEPTEMBER 2012 ISSUE OF *RESTORATION ECOLOGY***

### **RESEARCH ARTICLES**

N. Henao-Gallego, S. Escobar-Ramírez, Z. Calle, J. Montoya-Lerma & I. Armbricht. An Artificial aril designed to induce seed hauling by ants for ecological rehabilitation purposes.

M. Hendrychová, M. Šálek, K. Tajovský & M. Řehoř. Soil properties and species richness of invertebrates on afforested sites after brown coal mining.

C. P. Souto, K. Heinemann, T. Kitzberger, A. C. Newton & A. C. Premoli. Genetic diversity and structure in *Austrocedrus chilensis* populations: implications for dryland forest restoration.

J. T. Delaney & E. J. Baack. Intraspecific chromosome number variation and prairie restoration—a case study in northeast Iowa, U.S.A.

C. J. Harris, M. R. Leishman, K. Fryirs & G. Kyle. How does restoration of native canopy affect understory vegetation composition? Evidence from riparian communities of the Hunter Valley Australia.

A. K. Fiedler, D. A. Landis & M. Arduser. Rapid shift in pollinator communities following invasive species removal.

E. de la Peña, H. Van De Velde, L. Lens & D. Bonte. Soil conditions in natural, declining and restored heathlands influence plant–pollinator interactions of *Calluna vulgaris*.

M. W. Rogers & M. S. Allen. An ecosystem model for exploring lake restoration effects on fish communities and fisheries in Florida.



G. Oliveira, A. Nunes, A. Clemente & O. Correia. Testing germination of species for hydroseeding degraded Mediterranean areas.

L. L. B. Graham & S. E. Page. Artificial bird perches for the regeneration of degraded tropical peat swamp forest: a restoration tool with limited potential.

S. A. Ammond & C. M. Litton. Competition between native Hawaiian plants and the invasive grass *Megathyrus maximus*: implications of functional diversity for ecological restoration.

C. T. Kaase & G. L. Katz. Effects of stream restoration on woody riparian vegetation of southern Appalachian mountain streams, North Carolina, U.S.A.

S. M. Munson & W. K. Lauenroth. Plant community recovery following restoration in semiarid grasslands.

***For more information on current and past issues of Restoration Ecology see:***  
<http://www.blackwellpublishing.com/journal.asp?ref=1061-2971&site=1>

## **UPCOMING ECOLOGICAL RESTORATION RELATED CONFERENCES AND EVENTS – OCTOBER TO DECEMBER**

EcoSummit 2012 – Ecological Sustainability Restoring the Planet's Ecosystem Services. September 30 to October 5, 2012. Columbus, OH. [www.ecosummit2012.org](http://www.ecosummit2012.org)

Volunteer Opportunity – Eco-Restoration Workdays. Held on the second Saturday (Nichols Arboretum) or third Saturday (Matthaei Botanical Gardens) of each month. Ann Arbor, MI. To receive monthly reminders send a blank email to [ecoworkdays-](mailto:ecoworkdays-request@listserver.itd.umich.edu)

[request@listserver.itd.umich.edu](mailto:request@listserver.itd.umich.edu) with the word SUBSCRIBE in the subject.

Volunteer Workdays – West Central Chapter of Indiana Native Plant and Wildflower Association. October 2 and October 30, 2012. West Lafayette Parks, IN. Assist with removal of invasive plants. For more details contact Dan Dunten 765-775-5172 or Joan Samuels 765-567-7023. <http://www.inpaws.org/2012/wc-inpaws-announces-fall-rip-squad-workdays/>

Moos Family Speaker Series - Otto Doering will present "Excess Nitrogen: A Confounding Problem for Energy Use, Food Production, the Water We Drink and the Air We Breathe." October 4, 2012. St. Paul, MN. See the following webpage to register to attend the lecture <http://www.freshwater.org/2012Doering/>

2012 Environmental Education Association of Indiana Annual Conference. Environmental Literacy: Creating Stewards for a Sustainable Indiana. October 5 to 7, 2012. Indianapolis, IN. <http://www.goshen.edu/eeai/>

Shanghai Prairie Restoration Workday. October 7, 2012. Ann Arbor, MI. Assist with restoration work at a high quality prairie. Please register with Aunita Erskine at [aunitafl@umich.edu](mailto:aunitafl@umich.edu) or call 734-668-6354.

Volunteer Workdays – West Central Chapter of Indiana Native Plant and Wildflower Association. October 9, October 16, October 23, November 6, and November 13, 2012. Tippecanoe County Parks, IN. Assist with removal of invasive plants. For more details contact Joan Samuels 765-567-7023 or Margareta Fong 765-463-5093. <http://www.inpaws.org/2012/wc-inpaws-announces-fall-rip-squad-workdays/>

The Stewardship Network Monthly Webcast - October 10, 2012: "Ecosystem Management: As important to reducing conservation risk as protecting these areas from conversion to agriculture or urban systems" For more

information see the following webpage:  
[http://www.stewardshipnetwork.org/site/c.hrLOKWPILuF/b.3975187/k.A610/Stewardship\\_Network\\_Webcast.htm](http://www.stewardshipnetwork.org/site/c.hrLOKWPILuF/b.3975187/k.A610/Stewardship_Network_Webcast.htm)

Volunteer Opportunity and Training – Matthaei Botanical Gardens Prescribed Burn Crew Training. Learn about prescribed burns and volunteer to assist with prescribed burns. October 11 to 13, 2012. Ann Arbor, MI. For more information contact the Volunteer Coordinator at 734-647-8528 or [tgriffit@umich.edu](mailto:tgriffit@umich.edu)

Lake Erie Center Public Lecture. October 12, 2012. Room 155, Lake Erie Center, Oregon, OH. Dr. Ronald Oldfield will present “Back from the brink: understanding how environment affects behavior, aids recovery of Ohio brook trout”.  
<http://www.utoledo.edu/nsm/lec/events/events.html>

Freshwater Future’s Fall 2012 Climate Symposium. October 12 to October 13, 2012. Duluth, MN.  
<http://freshwaterfuture.org/resources/climate/climate-symposium.html>

7<sup>th</sup> Annual Natural Landscaping with Native Plants Conference. Wild Ones Milwaukee. October 13, 2012. Milwaukee, WI.  
<http://nativeplantseminar.eventbrite.com/>

Urban Water Sustainability Leadership Conference. U. S. Water Alliance. October 15 to 17, 2012. Cincinnati, OH.  
<http://events.r20.constantcontact.com/register/event?oeidk=a07e5uje7cy32746835&llr=ueml5fdab>

12<sup>th</sup> Annual Great Lakes Beach Association Conference. October 16 to 18, 2012. Mackinac Island, MI. <http://www.great-lakes.net/glba/2012conference.html>

Chicago Regional Forum on Ethics and Sustainability. Center for Humans and Nature and the Chicago Botanic Garden. October 16, 2012. Glencoe, IL.

[http://www.chicagobotanic.org/school/symposia/ethics\\_symposia.php](http://www.chicagobotanic.org/school/symposia/ethics_symposia.php)

2012 Freshwater Summit – Our Changing Great Lakes. October 16, 2012. Traverse City, MI. <http://www.gtbay.org/blog/>

Jordahl Public Lands Lecture. Dayton Duncan will present “Lands for the Public: America’s Best Idea” October 17, 2012. Madison, WI.  
[http://nelson.wisc.edu/events/jordahl\\_lecture/](http://nelson.wisc.edu/events/jordahl_lecture/)

Volunteer Prairie Work Day – Friends of Chiwaukee Prairie. Volunteer to assist with restoring and managing the Chiwaukee Prairie. October 20, November 17, and December 15, 2012. Pleasant Prairie, WI. For more information contact [cppf@chiwaukee.org](mailto:cppf@chiwaukee.org) or see the following webpage  
<http://www.chiwaukee.org/>

2012 American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America Annual Meeting – Visions for a Sustainable Planet. October 21 to 24, 2012. Cincinnati, OH.  
<https://www.acsmeetings.org/home>

Wisconsin Wetlands Association’s 2012 Annual Membership Meeting & Wetlands Awards Ceremony. October 25, 2012. Madison, WI.  
[www.wisconsinwetlands.org/2012annualmeeting.htm](http://www.wisconsinwetlands.org/2012annualmeeting.htm)

2012 Indiana Chapter of the American Society of Landscape Architects Annual Meeting and Design Awards Presentation. October 26, 2012. Indianapolis, IN.  
<http://inasla.org/meetinginfo.php?id=44&ts=1348550660>

2012 Ohio Chapter of the American Society of Landscape Architects Fall Educational & Gala. October 26, 2012. Cleveland, OH.  
[ocasla.com/meetinginfo.php?id=64&ts=1345429677](http://ocasla.com/meetinginfo.php?id=64&ts=1345429677)

Research-based answers to burning questions about the ecology of prescribed fires: when, where, why? October 26, 2012. Glencoe, IL. [http://www.chicagobotanic.org/school/symposia/symposia\\_JMP](http://www.chicagobotanic.org/school/symposia/symposia_JMP)

60<sup>th</sup> Anniversary Gala of Save Our Dunes. October 27, 2012. Chesterton, IN. For more information contact 219-879-3564

Upper Midwest Invasive Species Conference. October 29 to 31, 2012. La Crosse, WI. <http://www.umisc2012.org/>

Coalition of Ohio Land Trusts Fall 2012 Statewide Meeting. November 1, 2012. Columbus, OH. <http://www.landtrustalliance.org/events-news/calendar/coalition-of-ohio-land-trusts-fall-2012-statewide-meeting>

AC2012: Indiana Native Plants and Wildflower Society Annual Conference. November 3, 2012. Indianapolis, IN. [http://www.inpaws.org/wp-content/uploads/Registration\\_AC2012\\_web3.pdf](http://www.inpaws.org/wp-content/uploads/Registration_AC2012_web3.pdf)

Shirley Heinze Land Trust Fall Volunteer Events. November 3 and December 8, 2012. Assist with savanna restoration at either the Miller Dunes or Ivanhoe South. Both locations located in northwest Indiana. For more information contact 219-879-4725 or the following webpage <http://www.heinzetrust.org/Volunteer/>

Ottawa County Water Quality Forum. November 4, 2012. West Olive, MI. Contact Misty Cunningham 616-738-4898

Michigan Association of Conservation Districts Winter Convention. November 7 to 9, 2012. Gaylord, MI. Email: [lori.phalen@macd.org](mailto:lori.phalen@macd.org)

Protecting Freshwater Resources Together. Land Trust Alliance. November 8, 2012. Flint, MI. <http://www.landtrustalliance.org/about/regional-programs/mw/protecting-freshwater-resources-together>

Land Up. Sponsored by the Illinois Chapter of the American Society of Landscape Architects. November 9, 2012. Chicago, IL. <http://www.landupnow.com/about.html>

Stewardship Saturday at Weaver Park, Urbana, IL. November 10, 2012. Call 217-384-4062 to register and for more information on this event and similar ones offered by the Urbana Park District. Assist with removing invasive plants, improving trails, planting native plants, and general clean-up.

12<sup>th</sup> Annual Great Lakes Water Conference. University of Toledo College of Law. November 12, 2012. Toledo, OH. <http://www.law.utoledo.edu/ligl/conferences.htm>

Green Chemistry and Economic Development in the Great Lakes Region Conference. November 13 to 15, 2012. Chicago, IL. <http://www.glrppr.org/conference/index.cfm>

Chicago Wilderness Congress 2012. Shaping the Future of Regional Conservation. November 15, 2012. Chicago, IL. <http://www.chicagowilderness.org/what-you-can-do/attend-congress-2012/>

2012 Great Lakes Restoration Initiative Quality Technical Conference – Quality We Can See! December 4 to 6, 2012. Chicago, Illinois. For more information contact Louis Blume at 312-353-2317.

***If you have a conference or event that you would like listed in this section in future newsletters please email the information to Troy Anderson (TCA.ecology@gmail.com).***





# Midwest-Great Lakes Chapter Society for Ecological Restoration

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<http://chapter.ser.org/midwestgreatlakes/>

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# Society for Ecological Restoration

## 5<sup>th</sup> World Conference on Ecological Restoration

“Reflections on the Past, Directions for the Future”



Madison, Wisconsin, USA

October 6-11, 2013

### About the Conference

The Society for Ecological Restoration (SER) is pleased to announce its 5th World Conference on Ecological Restoration and 21st Annual Meeting, “Reflections on the Past, Directions for the Future”, to be held October 6-11, 2013 in Madison, Wisconsin, USA. We invite your company, organization or institution to partner with us at this exciting and important event, and have outlined in this prospectus a number of opportunities for marketing your products and services to conference attendees and the larger SER membership. Please contact us for more information about any of these opportunities or to share your own ideas about how we might collaborate: [info@ser2013.org](mailto:info@ser2013.org)

### SER 25<sup>th</sup> Anniversary

The SER2013 World Conference marks the 25th Anniversary of the Society for Ecological Restoration (SER) and represents an opportunity to celebrate not only the Society’s achievements over the last two and a half decades, but also the great strides and important advancements made in the field of ecological restoration during this period.

### Important Dates

January - April 2013: Call for Abstracts

April - May 2013: Call for Student Grant Applications

July 2013: Deadline for Presenter Registration

July - September 2013: Online Regular Registration

[www.ser2013.org](http://www.ser2013.org)