RESTORATION NEWS MIDWEST

Newsletter of the Midwest-Great Lakes Chapter of the Society for Ecological Restoration – March 2011, Volume 3, Issue 3

2011 ANNUAL CHAPTER MEETING AND ELECTIONS

The 2011 Annual Chapter Meeting is fast approaching and we have been working hard in making our final preparations for another great meeting. I want to share you with some highlights from this exciting meeting program:

- Dr. Roger Anderson will give the keynote presentation on *Midwest Oak Woodlands and Savannahs: Origins, Historic Changes, and Futuristic Trends*.

- We have a special plenary session on *Floodplain Restoration to Sustaining Large River Ecosystems*. Plenary speakers include Richard Sparks, Doug Blodgett, James Heckert, Mike Lemke, and Mike Wiant.

- A guided tour of one of the largest floodplain restoration projects (Emiquon Restoration Project) in the United States.

- Workshops on climate change adaptation and prescribed fire.

- 22 poster presentations and 24 oral presentations encompassing a diversity of ecological restoration topics

- A field trip to The Nature Conservancy's restoration project at Kankakee Sands and a field trip to the Lincoln Memorial Garden.

The initial meeting schedule and abstracts for all events can be downloaded from the Chapter website (http://www.ser.org/mwgl/events.asp).

We are very grateful for the fantastic support we have received from our meeting host (University of Illinois Springfield) and all of our meeting sponsors (Stantec, Illinois Chapter of The Nature Conservancy, Great Rivers Partnership, Prairie Restorations Inc., Therkildsen Field Station at Emiquon, Christopher B. Burke Engineering, Eco Logic, Lake States Fire Science Consortium, Northwater Consulting, Dickson Mounds Museum, Island Press, JFNew). Thank you!

We are nearing the end of our 2011 elections to fill 11 open positions on the Chapter Board of Directors. With the help of our chapter members we have received fantastic nominees for every position. We are also grateful for the willingness of all the nominees to serve the Chapter. Voting ballots and other election related information are available on the chapter website (http://www.ser.org/mwgl/events.asp). Votes from chapter members must be received by March 22, 2011. Election results will be announced during the Chapter Business meeting that will be held at the Annual Chapter Meeting on April 2, 2011.

Rocky Smiley, President

INFORMATION REQUEST: CAN SOIL ECOLOGICAL KNOWLEDGE IMPROVE RESTORATION OUTCOMES?

Previously, I described how knowledge from soil ecology may be applied towards the practice of ecological restoration (Heneghan 2010). However, information on how soil ecological knowledge has been used by restoration practitioners is limited. Thus, at the conclusion of my previous article I issued a request for information that I will synthesize in a future *Restoration News Midwest* article. I am reissuing my information request in order to obtain additional information.

I am interested in receiving information from restoration practitioners regarding examples of where their soil knowledge and/or their manipulation of the soil have changed their restoration methods. I am interested in the outcomes of successful and unsuccessful practices. Please respond to the following questions:

How do you incorporate soil ecological knowledge into your restoration work?

Are restoration outcomes improved by the use of soil ecological knowledge?

How has your manipulation of soil conditions led to changes in your restoration practices and/or plans?

Please respond to me by May 1, 2011 via email (soilecologicalknowledge [at] gmail [dot]com) with your responses to the above questions. Feel free to answer as in depth as you wish to each question. Please contact me at the above email address if you have any questions regarding this information request

References

Heneghan, L. 2010. How is soil ecological knowledge helping improve restoration outcomes? Restoration News Midwest 3: 3-6.

Liam Heneghan,
DePaul University,
Environmental Science Program and
Institute for Nature and Culture

REGIONAL-STATE REPORTS

This is a special newsletter section devoted to reports from MWGL SER Chapter members on their project updates, new collaborations, volunteer events, innovative technologies, preliminary or unusual findings, thought-provoking concepts, imaginative solutions, and any other restoration related activity or accomplishment occurring in the past year (3/1/2010 to 3/11/2011). State Representatives, At-large Representatives, and the Newsletter Committee collaborated in soliciting reports to develop this section.

OHIO

Stantec Consulting and EcoGro/Ridgewater LLC collaborated with the USFWS Partners for Fish and Wildlife program and the Ohio Department of Natural Resources to remove a lowhead dam on Deer Creek in Williamsport, Ohio. The small concrete dam was approximately 21.3 m in length and a partial barrier to fish passage. Deer Creek is a biologically diverse Scioto River tributary having more than 34 fish species and 12 freshwater mussel species within 305 m of the dam. Engineering design and demolition were completed less than three weeks after the notice to proceed.

Cody Fleece
cody.fleece@stantec.com

The Ohio Department of Natural Resources' Division of Soil and Water completed a three year study on the state of stream restoration projects in Ohio. Findings from the evaluation of 51 projects indicate that the most striking deficiency in the morphology of restored streams was the lack of floodplain connectivity. The report and photos are available from the following website:
http://www.dnr.state.oh.us/tabid/21817/Default.aspx

Dan Mecklenburg and Laura Fay

Ohio State University researchers are working with researchers at the Metropolitan Water Reclamation District of Greater Chicago to evaluate the ability of soil amendments to restore degraded soil in the Calumet, Illinois region. The interdisciplinary research team is evaluating soil ecosystem services in urban degraded soils revitalized by application of biosolids, compost, or amended biosolids. A three year field project is being conducted to evaluate the ability of soil amendments to improve: 1) soil biological services (i.e., plant growth, soil microbial function) and 2) soil chemical services (i.e., reductions in metals, pharmaceuticals, and personal care products, improved runoff water quality).

Nick Basta
basta.4@osu.edu

The Restoration Ecology team at the Wilds (Nina Sengupta, Shana Byrd, Nicole Cavender, and department's technicians, assistants, and volunteers) and their collaborators from Ohio State University and University of Akron have completed a three year study on regenerating reclaimed mined land with high-diversity prairie species. The study included test plots with land-treatments, single and multi-species seed treatments, fertilizer treatments, and control plots. Additional plots were established for no-till high-diversity seed mixes. Effects on biodiversity were evaluated through arthropod and small mammal sampling. We are currently in the process of analyzing and publishing the results. Contact me for additional information.

Nina Sengupta
nsengupta@thewilds.org

The Cleveland Metroparks Invasive Plant Management Program treated over 1.6 km^2 of 33 different invasive species over the course of 117 field treatment days. Contact Jennifer Hillmer (jah@clevelandmetroparks.com) if you would like a copy of the full report.

Jennifer Grieser
jmg2@clevelandmetroparks.com

The Cleveland Metroparks Plant Community Assessment Program surveyed 108 plots encompassing 14 different reservations to assess habitat quality within the Metroparks system. Modified Vegetative Index of Biological Integrity (VIBI) and Floristic Quality Assessment Index (FQAI) were used to assess habitat quality. Data was also collected for the USFS iTree program. For more information contact Dr. Constance Hausman (ceh@clevelandmetroparks.com).

Jennifer Grieser
jmg2@clevelandmetroparks.com

Cleveland Metroparks Deer Management Program culled over 500 deer across eight different reservations to reduce the impacts of deer overpopulation on plant communities. Over 9072 kg of venison were donated to the Cleveland Foodbank. Age, sex, fetus number and fetus size were recorded. DNA and tissues samples were collected by staff from Cleveland Metroparks Zoo. For more information contact John Mack (jjm@clevelandmetroparks.com).

Jennifer Grieser
jmg2@clevelandmetroparks.com

Katie Migliaccio (University of Florida), Daren Harmel (USDA-ARS Grassland Soil and Water Research Laboratory), and Rocky Smiley (USDA-ARS Soil Drainage Research Unit) recently published a book chapter titled "Surface Water Quality Sampling in Streams and Canals". This book chapter provides updated information on designing and implementing surface water quality assessments in wadeable streams and canals (i.e., drainage ditches). It also contains an introduction to common sampling methods for

water chemistry, hydrology, physical habitat, fishes, and macroinvertebrates. Contact Rocky if you would like a reprint.

Rocky Smiley
rocky.smiley@ars.usda.gov

MICHIGAN

Todd Aschenbach and Robert Roos from Grand Valley State University are currently investigating how variable seeding rates of added native species influence the diversity and productivity of existing native and non-native vegetation and the establishment of other added native species in a sand prairie restoration experiment. This experiment was established in 2009 in the Manistee National Forest in Michigan.

Todd Aschenbach
aschenbt@gvsu.edu

INDIANA

The first ever biodiversity survey of Goose Pond Fish and Wildlife Area was conducted on July 16 and July 17, 2010. This Fish and Wildlife Area is the largest Wetland Reserve Program restoration in Indiana and the seventh largest in the United States. Initial bird surveys suggest that this area is an avian hotspot in Indiana, but very little is known about other taxa. One hundred dedicated volunteers identifying and collecting plants and animals on this hot July weekend. In two days 899 species were documented from this 32.4 km^2 wetland. A complete report is available at ***http://indianaacademyofscience.org/.***

Barbara Simpson
barbsimp@comcast.net

ILLINOIS

In the spring 2010 the Wetlands Initiative has began its fourth multi-year restoration project at Midewin National Tallgrass Prairie. This time the private-public partnership works to restore 1.9 km^2 of marsh, wet meadow, and different prairies in the Grant Creek watershed. The challenges to restoring this wetland-prairie mosaic are past military activity as Midewin used to be Joliet Arsenal and contains remnants of agriculture and pasture. The 2011 efforts will include planting over 60,000 native plug species, seeding over 100 native plant species, intensive woody and herbaceous invasive plant removal, and restoring hydrology and topography. To learn more visit www.wetlands-initiative.org.

Izabella Redlinski
iredlinski@wetlands-initiative.org

Restoration ecologists at V3 Companies completed the planting at the Hadley Valley Preserve wetland mitigation project during 2010. 59,000 native plant plugs were installed to complete the 0.7 km^2 restoration. The $3.3 million project is located on property owned by the Forest Preserve District of Will County and was funded by the O'Hare Airport Modernization Mitigation Account. The restoration included the remeandering of 2195 meters of stream, removal of drain tile, and the restoration of five types of plant communities (emergent wetland, sedge meadow, wet prairie, floodplain forest, prairie).

Tom Slowinski
tslowinski@v3co.com

V3 Companies completed the Messenger Woods wetland restoration during 2010 with the installation of 48,000 native plant plugs. The $1.7 million design/build/manage project is located adjacent to the Messenger Woods Nature Preserve near Homer Glen, Illinois. This nature preserve is owned by the Forest

Preserve District of Will County. The project involved the restoration of 0.4 km^2 of wetland and prairie buffer and was funded by the O'Hare Airport Modernization Mitigation Account.

Tom Slowinski
tslowinski@v3co.com

Hawk Hollow Grassland Restoration Project involved herbicide application to almost 1.2 km^2 of cool season Eurasian grasses and the planting of native short stature grasses and forbs to provide habitat for grassland birds in one of the few large tracts of grassland in Du Page County, Illinois. Undesirable trees and shrubs were also removed to provide large areas for area-sensitive species such as the Henslow's Sparrow and Bobolink. Maintenance mowing, selective herbicide application, prescribed burning, and monitoring will be used to help with the establishment of the native vegetation.

Scott N. Kobal
skobal@dupageforest.com

The Churchill Dam Removal and Channel Habitat Restoration Project began in October 2010 with the drawdown of water. Dam removal on the East Branch of the Du Page River at Churchill Woods Forest Preserve in Glen Ellyn and riffle construction will continue through late July 2011. Dam removal will lower water levels and expose some areas that are submerged and creating approximately 0.09 km^2 of floodplain and wetland habitat. The project's goals also include increasing the amount of dissolved oxygen in the river, restoring native wetlands, improving fish and invertebrate communities, and eliminating barriers to fish and mussel movement.

Scott N. Kobal
skobal@dupageforest.com

Warrenville Grove Dam Removal and River Restoration Project involved a partnership between the Forest Preserve District of Du Page County and Du Page County Stormwater Management Division. This project is funded by a grant from the National Oceanic and Atmospheric Administration to remove the Warrenville Grove dam and return the West Branch of the Du Page River to its natural flow regime. Restoration activities also included sediment removal and the creation of river channel habitat with riffles, pools, boulders, and wood structures. New floodplain marshes were created for nesting and migratory waterfowl and historic fish passages were reestablished.

Scott N. Kobal
skobal@dupageforest.com

Prairie habitat was planted at Burnham Park, Chicago in July 2010. This project is a collaborative effort among: 1) Elizabeth Middleton (ellporte@indiana.edu), Peggy Schultz, Jim Bever (Indiana University); 2) Sarah Richardson, Corey Palmer (DePaul University); 3) Zhanna Yermakov (Chicago Park District); 4) Keith Jones, George Milner (V3); and 5) David Wachtel (Aramark). The project is investigating the effectiveness of methods of seeding and mycorrhizal fungi. The site connects existing habitat patches and will reduce soil erosion into Lake Michigan. DePaul University students helped plant and monitor the site. The project was funded by EPA's Great Lakes Restoration Initiative.

Sarah Richardson
sarah.richardson242@gmail.com

WISCONSIN

The Milwaukee County Parks and the University of Wisconsin Extension's Natural Areas Program had another successful year in 2010. Staff worked to restore ecological functions on 4.9 km^2 of urban natural areas with the assistance of 2,800 volunteers who donated almost 17,000 hours toward natural areas activities. To streamline management decisions, staff have created a system-wide plant database and a potential breeding wildlife database that are being related to ArcGIS data layers of ephemeral wetlands, invasive species, hiking trails, county natural communities, and soils to guide us in our resource management decisions for the 40.5 km^2 within our program area.

Brian Russart
brian.russart@milwcnty.com

Bayshore Blufflands State Natural Area in Door County, Wisconsin is one of the largest and most significant project areas of the Door County Land Trust (DCLT). Landscapes of Place, LLC and the DCLT have been awarded a 2011-2013 Wisconsin State Wildlife Grant for restoration work on 1.6 km^2 within the preserve. This project offers an effective and cooperative program of management and removal of invasive plant species that threaten the habitat of the Niagara Escarpment in the Carlsville Bluffs area of the Bayshore Blufflands. For information on volunteering or the project's process see http://landscapesofplace.com/.

Nancy Aten
nancyaten@landscapesofplace.com

In February 2011 Landscapes of Place, LLC delivered the landscape restoration plan for a key 0.1 km2 within the Menomonee Valley in Milwaukee. This effort was for a client partnership including city, state, and non-profits. The plan was developed over two years and guided by the SER framework. Specifically, it describes 100-year target habitats for a mosaic of conditions within dramatic topography adjacent to the Menomonee River. The project may be unusual -- in its highly urban context -- for its emphasis on unbroken space, microtopographic variability, and use of local reference models for "creating wildness" in reclaimed former brownfields.

Nancy Aten
nancyaten@landscapesofplace.com

Peter Allen and I continue working on research projects in the University of Wisconsin-Madison's Lakeshore Nature Preserve. This 1.4 km^2 area is located on the campus's west side and has experienced catastrophic afforestation. Our most successful work here to date is associated with management procedures that mimic historic biotic controls associated with pyric-herbivory in an attempt to regulate nutrients, especially nitrogen. These management techniques are working to restore rare plant communities in the shade of oaks and hickories, dominated by "graze obligate" C-3 grasses and herbs, such as *Atennaria* spp., *Besseya bullii*, *Sisyrinchium* spp., *Hypoxis hirsute*, *Fragaria virginiana* and others.

Stephen L. Thomforde
stevethomforde@gmail.com

Off campus projects conducted by Peter Allen and Stephen Thomforde include working with grazing farmers to survey pastures for plant, bird, insect, amphibian, reptile, and mammal diversity. Early results are encouraging as rare species are showing up in greater frequencies than in our "restored un-grazed" savanna projects. These initial observations have generated numerous research projects that we plan to conduct this summer. Our research suggest it is possible to manage restoration projects for maximum diversity and function

and providing numerous salable products capable of offsetting management costs. Suddenly restoration of 40 to 60% of the Midwest back to grassland savanna appears feasible.

Stephen L. Thomforde
stevethomforde@gmail.com

MINNESOTA

In many southern Minnesota watersheds, sediment loss from channel erosion exceeds field erosion due to anthropogenic changes and geologic factors. Reductions in excessive channel-derived sediment loads are needed for Total Maximum Daily Load implementation plans. The University of Minnesota Department of Bioproducts & Biosystems Engineering has received grants from the McKnight Foundation and the Minnesota Department of Agriculture (MDA) to develop approaches for prioritizing channel erosion sites for purposes of sediment reduction. The MDA study will focus on physical processes of channel evolution while the McKnight study will focus on prioritization and development of cost-effective stream restoration and sediment reduction strategies.

Chris Lenhart
lenh0010@umn.edu

SELECTED CONTENTS OF THE MARCH 2011 ISSUE OF *RESTORATION ECOLOGY*

RESEARCH ARTICLES

J.R. Walsh & E.F. Redente. Comparison of reclamation techniques to re-establish western white pine on smelter-impacted hillsides in Idaho.

E. Knop, F. Herzog & B. Schmid. Effect of connectivity between restoration meadows on invertebrates with contrasting dispersal abilities.

A.S. Grant, C.R. Nelson, T.A. Switalski & S.M. Rinehart. Restoration of native plant communities after road decommissioning in the Rocky Mountains: effect of seed-mix composition on vegetative establishment.

E.B. Morrison & C.A. Lindell. Active or passive forest restoration? Assessing restoration alternatives with avian foraging behavior.

Y. Dominguez-Haydar & I. Armbrecht. Response of ants and their seed removal in rehabilitation areas and forests at El Cerrejón coal mine in Colombia.

B. Beltman, N.Q.A. Omtzigt & J.E. Vermaat. Turbary restoration meets variable success: does landscape structure force colonization success of wetland plants?

B. Maslo, S.N. Handel & T. Pover. Restoring beaches for Atlantic Coast piping plovers (*Charadrius melodus*): a classification and regression tree analysis of nest-site selection.

T.E. Fuller, K.L. Pope, D.T. Ashton, & H.H. Welsh Jr. Linking the distribution of an invasive amphibian (*Rana catesbeiana*) to habitat conditions in a managed river system in northern California.

C. Coiffait-Gombault, E. Buisson & T. Dutoit. Hay transfer promotes establishment of Mediterranean Steppe vegetation on soil disturbed by pipeline construction.

N.T. Munro, J. Fischer, G. Barrett, J. Wood, A. Leavesley & D. B. Lindenmayer. Bird's response to revegetation of different structure and floristics—are “restoration plantings” restoring bird communities?

A.G. Vovides, Y. Bashan, J.A. López-Portillo & R. Guevara. Nitrogen fixation in preserved, reforested, naturally regenerated and impaired mangroves as an indicator of functional restoration in mangroves in an arid region of Mexico.

T.G. Jones, N.C. Coops & T. Sharma. Exploring the utility of hyperspectral imagery & LiDAR data for predicting *Quercus garryana* ecosystem distribution and aiding in habitat restoration.

T.J. Massad, J.Q. Chambers, S.G. Rolim, R.M. Jesus & L.A. Dyer. Restoration of pasture to forest in Brazil's Mata Atlântica: the roles of herbivory, seedling defenses, and plot design in reforestation.

S.A. Miller, A. Bartow, M. Gisler, K. Ward, A.S. Young & T.N. Kaye. Can an ecoregion serve as a seed transfer zone? Evidence from a common garden study with five native species.

For more information on current and past issues of Restoration Ecology see:
www3.interscience.wiley.com/journal/117979191/home

UPCOMING ECOLOGICAL RESTORATION RELATED CONFERENCES AND EVENTS – MARCH TO JUNE 2011

WATERCON 2011. Third Joint Conference third joint conference of the Illinois Section American Water Works Association and the Illinois Water Environment Association, Springfield, IL. March 21 to March 24, 2011. http://isawwa-portal.com/WATERCON2011.ASPX

Ohio Botanical Symposium. Presented by Ohio Division of Wildlife in cooperation with Cleveland Museum of Natural History, The Nature Conservancy, and The Ohio State University Herbarium, Columbus, OH. March 25, 2011. http://www.cmnh.org/site/ResearchandCollections/Botany/BotSymp.aspx

Phragmites Management Workshop, A symposium to build capacity for management. East Lansing MI. March 28 to March 30, 2011. http://www.glc.org/ans/phragmites/symposium2011.html

Minnesota Lake Vegetation – Above and Below the Waterline. 2011 Minnesota Native Plant Society Annual Symposium. Co-Sponsored by the Bell Museum of Natural History. Minneapolis, MN. March 26, 2011. http://www.mnnps.org/events/symposium.html

Linkages Between Ecological Restoration and Ecosystem Sustainability – the Third Annual Chapter Meeting of the Midwest-Great Lakes SER Chapter, Springfield, IL. April 1 to 3, 2011. https://www.ser.org/mwgl/events.asp

2011 Joint Meeting of the Michigan Chapter of the American Fisheries Society, the Michigan Chapter of the Wildlife Society, and the Michigan Bird Conservation Initiative, Petoskey, MI. April 6 to April 7, 2011. http://www.fisheries.org/units/miafs/upcoming_meet.html

2011 Annual Event of the Friends of the Boundary Waters Wilderness, Golden Valley, MN. April 7, 2011. http://www.friends-bwca.org/news/events/

Speaking for Lakes – 2011 Wisconsin Lakes Convention, Green Bay, WI. April 12 to April 14, 2011. http://www.uwsp.edu/cnr/uwexlakes/conventions/

Garlic Mustard and the 2011 Challenge Kick-Off! Led Lisa Brush (Stewardship Network). Stewardship Network Webcast. Online event, 11:45 am to 1:00 pm EST, April 13, 2011. See the following for more information: www.stewardshipnetwork.org/site/c.hrLOKWPILuF/b.3975187/k.A610/Stewardship_Network_Webcast.htm

Michigan Lakes and Streams Association 50th Annual Conference, Boyne Falls, MI. April 15 to April 16, 2011. http://www.mlswa.org/Conference/2011%20Conference/50thAnnualConference.htm

Land Legacy Gathering, co-hosted by the Gathering Waters Conservancy and the Ice Age Trail Alliance, Cross Plains, WI. April 30, 2011. http://gatheringwaters.org/about-us/our-events/LLG/

Restoring Ecological Health to Your Land with Steve Apfelbaum (Applied Ecological Services), Alan Haney (University of Wisconsin-Stevens Point), and Lisa Brush (Stewardship Network). Stewardship Network Webcast. Online event, 11:45 am to 1:00 pm EST, May 11, 2011. See the following for more information: ***www.stewardshipnetwork.org/site/c.hrLOKWPILuF/b.3975187/k.A610/Stewardship_Network_Webcast.htm***

2011 Spring Confluence, River Alliance of Wisconsin, Madison, WI. May 14, 2011. https://events.r20.constantcontact.com/register/eventReg?oeidk=a07e3gjf3cva2fae5b8&oseq=

Central States Water Environment Association 84th Annual Meeting, Brooklyn Park, MN. May 16 to May 19, 2011. http://www.cswea.org/events/84thAnnualMeetingRegistrationPkgforPost

54th International Conference on Great Lakes Research, Duluth, MN. May 30 to June 3, 2011. http://www.iaglr.org/conference/index.php

Integrating Conservation and Sustainable Living. 2011 International Symposium on Society and Resource Management, Madison, WI. June 4 to June 8, 2011. http://www.issrm2011madison.iasnr.org/index.php?L1=left_home.php&L2=body_home.php

2011 Michigan Water Environment Association Annual Conference, Bellaire, MI. June 26 to June 29, 2011. http://www.mi-wea.org/annual_conference.php

Bill Santelik,
EA Engineering, Science, and Technology, Inc.

If you have a conference or event that you would like listed in this section in future newsletters please email the information to Bill Santelik (wsantelik@eaest.com)

.

MIDWEST-GREAT LAKES CHAPTER SOCIETY FOR ECOLOGICAL RESTORATION INTERNATIONAL

2010 NEWSLETTER COMMITTEE

Rocky Smiley (editor)
Liam Heneghan
Kimberly Suedkamp Wells

2010 BOARD OF DIRECTORS

Chapter Officers

President – Rocky Smiley, USDA ARS Soil Drainage Research Unit
Vice-President – Jennifer Lyndall, ENVIRON International Corporation
Secretary – Kimberly Suedkamp Wells, ENVIRON International Corporation
Treasurer – Hua Chen, University of Illinois at Springfield

State Representatives

Ohio – Cody Fleece, Stantec Consulting Services Inc.
Indiana – Bob Barr, Indiana University-Purdue University Indianapolis
Michigan – Bob Grese, University of Michigan
Illinois – Geoff Morris, University of Chicago
Wisconsin – Stephen Thomforde, University of Wisconsin-Madison
Minnesota – Chris Lenhart, University of Minnesota

At Large Representatives

David Benson, Marian College
Cara Hardesty, Stantec Consulting Services Inc.
John Shuey, Indiana Office of The Nature Conservancy
Anne Remek Kominowski, Indiana Department of Environmental Management

Student Representatives

Katherine Martin, the Ohio State University

CHAPTER WEBPAGE

http://www.ser.org/content/SERMWGL.asp

CHAPTER FACEBOOK PAGE

http://www.facebook.com/group.php?gid=116944704989364