

Plants Out of Place



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President's Notes: Seeing Through a Lens of Invasive Species

This year I decided to make a renewed effort to spend more time in Wisconsin State parks with my daughters. We haven't been to too many yet, but in just my few visits it dawned on me I see through a lens of invasive species. It really put new meaning to the phrase "ignorance is bliss," when my daughters, age 6 and 9, couldn't quite understand my disappointment and concern. We all know the impact of invasive species on our natural areas, but for some reason it hit me harder this year when I realized how different their experience will be from mine. However, the positive side has been great conversations with them regarding things like why we see what we see and why we need to care. It's given me renewed passion for the things IPAW does. Thanks for all your help and getting out there and educating!

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"The environment and the economy are really both two sides of the same coin. If we cannot sustain the environment, we cannot sustain ourselves."

- Wangari Maathai, Environmentalist, 2004 Nobel Peace Prize Winner

President's Notes Continued

Spring has sprung and with that May brings reminders of things to come. Here are a few updates:

- Starting this May the newest version of the Wisconsin DNR Natural Resources rule, NR 40, on invasive species identification, classification and control has been in place for two years. This means that restricted species that were added to the list in 2015 are grandfathered for one more year for herbaceous material and three more years for woody material.
- June is Invasive Species Awareness Month (ISAM). To promote ISAM the Wisconsin Invasive Species Council (WISC) will be having the Invader Crusader awards ceremony on June 8th, from 1-2 pm, at the MacKenzie Environmental Center in Poynette, Wisconsin. Many deserving groups and individuals will be receiving awards.
- The ceremony will also be honoring the winner of the ISAM video contest. There are at least 25 videos in the contest this year and it's not too late to vote on your favorite. See the [WISC website](#) for full details on the Video contest.
- If you haven't seen it yet see the [Wisconsin Invasive Species Council's website](#) there's new information in the resources section regarding publications, local ordinances, and financial assistance. Soon to come will be some educator's resources.

Chris Hollingsworth

Join the New GLEDN Monthly Challenge!

By: Anne Pearce, WIFDN Coordinator



The Wisconsin First Detector Network (WIFDN) is excited to announce a new challenge for users of the Great Lakes Early Detection Network (GLEDN) app. Invasive species are all around us, and it takes less than a minute to report an invasive species infestation with the GLEDN app. If you haven't used the app yet, you can use [this guide](#) to get started.

From May – October, WIFDN will post a monthly challenge to promote use of the app and help app users focus on priority species. Any reports observed in Wisconsin during the month and submitted via the GLEDN app or EDDMapS by the end of the month will be eligible. WIFDN will review submissions at the end of the month and celebrate those people who have completed the challenge. Learn how to join the challenge in [this guide](#), and stay tuned to the WIFDN [website](#) and [Facebook page](#) for challenge updates!

GLEDN Monthly Challenge - May 2017

Spring is here, summer is on the way, and there are invasive species growing all over the state! In May, we encourage people to (re)acquaint themselves with the GLEDN app and to get outside and report any invasive species they see. **The inaugural monthly challenge is to submit at least 15 reports of invasive species observed in Wisconsin during the month of May.** All reports observed in Wisconsin in May and uploaded/submitted by Friday, June 2nd will be eligible. Remember, it takes less than a minute to create a report in the GLEDN app. Try it out while you're walking your dog, biking, or hiking! Or set aside 30 minutes to report 15 infestations in your local natural area. We hope you accept the challenge!

And don't forget, if you are taking the GLEDN Monthly Challenge and happen to find a legally NR40 **prohibited** terrestrial, wetland, or aquatic species, you may be eligible for IPAW's \$25 or \$50 Bounty. For additional details, visit IPAW's website at [Invasive Plant Bounty – Guidelines](#) and you will find all the information you need to submit a request for the Bounty.



Restoration of a Remnant Prairie

By: Robert Roos, Senior Consultant, Cardno



As one of Wisconsin's largest landowners, the Wisconsin Department of Transportation (DOT) is championing an effort to restore 23 roadside remnant prairie locations that have been identified across 13 counties. In total, these efforts aim to restore approximately 100 miles (1,000 acres) of ecologically significant roadside habitat. As a result of human activities the quality of prairie ecosystems across Wisconsin have been severely degraded. Invasive species introductions, ever-increasing management constraints (i.e., fragmentation, shared rights-of-way, adjacent land uses), and 'created' prairie restorations with introduced seed have contributed to the decline and ultimate loss of these remnant gems. True prairie remnants are an exceedingly rare and special resource to the residents of Wisconsin and the Midwest.

Recognizing the importance of regularly maintained rights-of-way, and their responsibility to preserve these rare prairie remnants, the Wisconsin DOT worked with Cardno to review historic literature and field survey data from the 1990s for known remnant prairies sites that occur within their road rights-of-way. Present-day assessments were conducted during the 2016 calendar year to identify and compare general floristic quality, presence of endangered, threatened, or rare plant species, dominance of both non-native and native invasive species, woody species encroachment, and management constraints posed by shared rights-of-way and adjacent land uses. Wisconsin DOT, along with input from Cardno's prairie restoration experts, developed a weighted matrix to analyze and rank existing remnant prairie site quality and perceived effort to implement and maintain a successful remnant prairie restoration regime.

During the 2017 calendar year, Wisconsin DOT and Cardno will utilize data collected to create targeted restoration goals and objectives for each of the 23 identified remnant prairie sites. A variety of restoration activities will be implemented that include non-native species herbicide treatments, woody species encroachment removal, and prescribed (controlled) burns. Reports summarizing activities will be completed and permanent photo stations will be established to document restoration success and adaptive management recommendations for future years.

Update of the Story Map Priority Species Lists for Wisconsin

By: Niels Jorgensen, PhD Student, UW-Madison

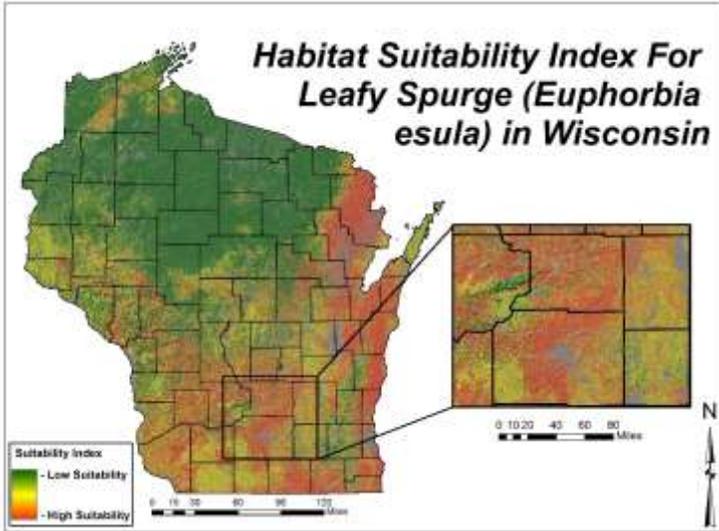
April showers have officially brought May flowers, and that includes a fresh crop of invasive plants. Which means, it's time again to start recording invasive plant locations! As such we're encouraging interested parties to use the Great Lakes Early Detection Network (GLEDN) mobile application and/or the Early Detection and Distribution Mapping System (EDDMapS) to report invasive species (of all kinds) around the state. For many of you, reporting invasives may be like riding a bicycle – you've been waiting all winter to get back out there – but for others you may feel overwhelmed by the sheer number of regulated invasives in our state, and could use some guidance. So, I say: keep reading!

Last year I began a project with Dr. Mark Renz at UW-Madison to develop predictive models of invasive species habitats across the state. Because the output of our models can be cumbersome to decipher (see habitat model of leafy spurge below), we

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Story Map Priority Species Continued

developed a way to easily interpret the outputs. By determining the percent total of each county deemed suitable for a given species and the number of occurrences in each county, we could place each of our modeled species into “priority” or “high



priority” categories. For example, in Columbia County, a considerable amount of the county was deemed suitable by our efforts, but the county was poorly surveyed (very few known occurrence records), so this species was classified as a high priority species. Conversely, Dane County also had a considerable amount of suitable habitat for leafy spurge based on our models, but many more known presence points, so instead leafy spurge was given a priority designation. After going through each species and designating them as priority or high priority, we developed an ESRI Story Map to list roughly 10 species for each county.

Based on efforts last year, we logged 1,839 new occurrence records across the state through the EDDMapS and the GLEDN mobile application. Even more impressive, data sharing hit a new high last year, with a total of 17,165 records coming from bulk uploads (Midwest Invasive Species Network;

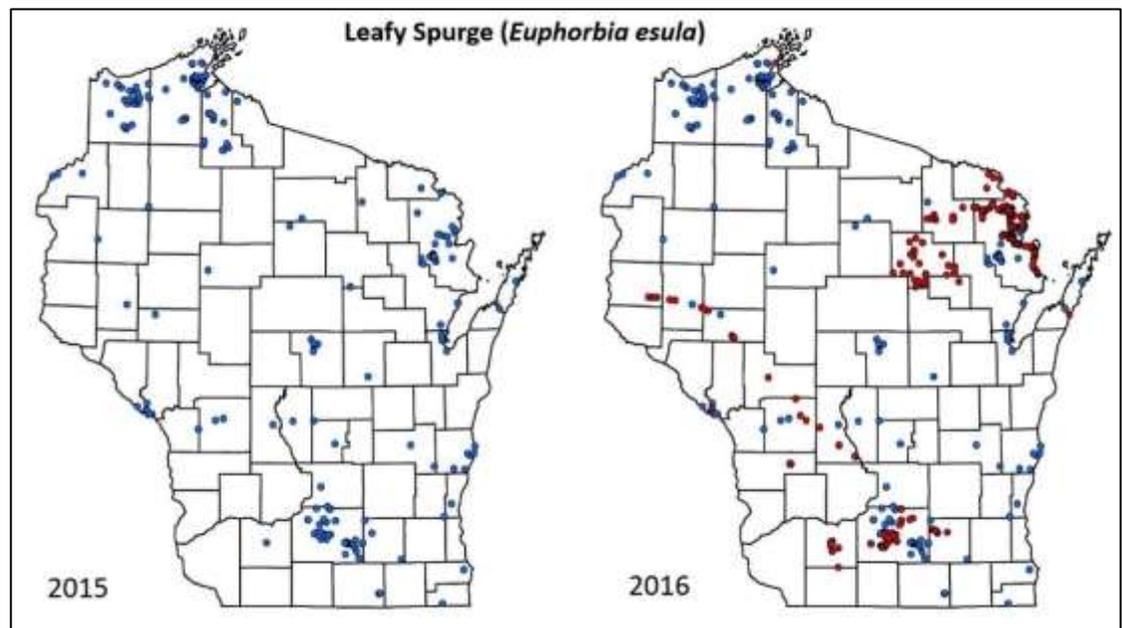
efforts by the Iowa Highway Commissioners Office, and the Kickapoo Valley Reserve, among others). Amazingly (perhaps coincidentally), 75% of all the reports that were shared and uploaded to EDDMapS last year were of species that support our modeling project, and 2/3 of our species of interest were found on the priority lists, embedded in the ESRI Story Map. For example, the map below shows an increase of 359 new leafy spurge (*Euphorbia esula*) reports from 2015 to 2016, bringing the total number of known locations in the state to 698, a nearly 50% increase, thanks to diligent reporting and data sharing!

With a new year and new, updated models, we’ve decided to deploy a new iteration of the ESRI Story Map, which launched 5/5/2017. It can be accessed directly by following this URL: <http://arcg.is/2ob5PdW>; or, by navigating to the [Wisconsin First Detector Network’s website](#), clicking on “Invasive Species ID and Impacts” in the “Learn” Tab, and then scrolling past the list of terrestrial species

identification resources. In addition, an overview video of how to traverse the Story Map is provided on the WIFDN website (“2017 Webinar Series”).

Like last year we are asking individuals to use the ESRI Story Map as a guide to report invasive species in the state. While we realize that there are other invasive species of concern in the state, we encourage you to utilize this resource as a tool. By visiting the Story Map website, you’ll be able to learn more about our

project, how to report invasive plants using a variety of resources, and find access to free identification materials online. So, explore the Story Map and don’t hesitate to ask questions when they arise (njorgensen@wisc.edu). Happy surveying!



Monitoring for Species that Might be Assessed for Round 3 of NR 40

By: Kelly Kearns, WI DNR

Although the last revisions to Wisconsin's NR 40 Invasive Species rule just went into effect 2 years ago, it is time to start thinking about the next round of revisions to the rule. DNR staff and the Wisconsin Invasive Species Council will be reviewing the assessment process that was used to determine what species should be regulated. We also need to start making observations of invasiveness for species not currently regulated. This is where you can help. As you are driving, hiking or doing field work this growing season, take note of species that are becoming invasive. Using the [GLEDN smartphone app](#), you can take a photo, get coordinates for the location, and get the plant identified. You can also collect specimens or report using the [DNR's Invasive Plant Reporting form](#) or sending an email to invasive.species@wi.gov. Please report on the plant's abundance, density and how it appears to be impacting other species. Do not report planted specimens, just those that have spread.

Please record, photograph, collect specimens and report on the following species, or others not currently on the [NR 40 list](#) but which may appear to be invasive:

Callery pear – [Pyrus calleryana](#)

Norway maple – [Acer platanoides](#)

Cranberry bush viburnum – [Viburnum opulus subsp. opulus](#)

Any naturalizing privet – [Ligustrum vulgare](#) and other species:

Common privet – [Ligustrum vulgare](#)

Black jetbead – [Rhodotypos scandens](#)

Periwinkle – [Vinca minor](#)

English Ivy – [Hedera helix](#)

Wintercreeper – [Euonymus fortunei](#)

Baby's breath – [Gypsophila paniculata](#)

Yellow bedstraw - [Galium verum](#)

Chinese chives – [Allium tuberosum](#)

Star of Bethlehem – [Ornithogalum umbellatum](#)

Ox-eye daisy – [Leucanthemum vulgare](#)

Shrubby lespedeza – [Lespedeza bicolor](#)

Palmer amaranth – [Amaranthus palmeri](#)

Incised fumewort – [Corydalis incisa](#)

Mugwort – [Artemisia vulgaris](#)

Beefsteak plant - [Perilla frutescens](#)

Exotic burred - [Sparganium erectum](#)

Miscanthus species:

Amur silver grass – [Miscanthus sacchariflorus](#)

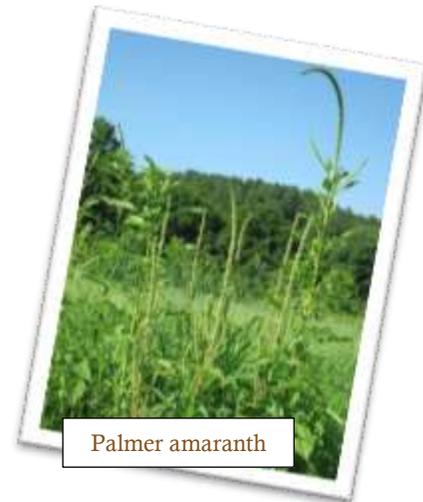
Chinese silver grass – [Miscanthus sinensis](#)

Miscanthus hybrid – [Miscanthus x gigantea](#)

Quack grass – [Agropyron repens](#)

Smooth brome – [Bromus inermis](#)

Cogon grass – [Imperata cylindrica](#)



Palmer amaranth



Periwinkle



Cogon grass



Introducing Our Newest Board Member, Heidi Kennedy

We're glad to have you, Heidi!

My name is **Heidi Kennedy** and I am excited to join IPAW. My love for the outdoors began at an early age. One of the earliest pictures of me, as a 3 month old, was of me and my parent's tent camping in northern Wisconsin. As a child we spent a lot of time outdoors, camping, fishing, snowmobiling, and hiking. Then as a fiercely independent 16 year old, I became an exchange student and lived for a year with a family in a fairly remote area of western Norway. I can say to this day that there has never been a year more influential on my life than that year. I gained a wonderful family, that I still keep regular contact with and I left a part of my heart in those mountains. As a culture, Norwegians have a strong environmental ethic that isn't taught in school but is a part of their culture and who they are as a society. In addition to my new language skills, I brought that environmental ethic home with me and now as a mom I am trying to instill the same environmental ethic. I am married to a Captain with the Department of Corrections and have a 15 year old step-son, and two sons that are 5 and 2 years old. Outside of work my boys keep me busy but my free time is spent hiking, kayaking and most of all gardening. Gardening is my stress outlet and my native plant gardens are ever expanding much to the chagrin of my husband who believes that we need a yard for the dogs and the boys.

I spent almost 15 years at the Wisconsin Department of Natural Resources. For nearly 10 years I was in the trenches processing waterway and wetland permits and the last 5 years I was in the office in Madison developing shoreland, wetland and waterway policies, developing administrative codes, reviewing legislation, and assisting with controversial or complex projects. In October of 2015, I left state service to get back in the field and currently work as a Natural Resources Scientist for Short Elliott Hendrickson (SEH) focusing on wetland delineations, regulatory permitting, and wetland restoration. I have undergraduate degrees in Environmental International Relations, Scandinavian Studies and a Certificate in Environmental Studies from UW Madison and a law degree from Marquette University. Currently, I also serve as a Board member for the Environmental Law Section of the Wisconsin Bar Association.

The 2107 Invader Crusader Award Winners are. . .

By: Anna Rzechowski, Conservation Biology Intern for WI DNR

As June is Invasive Species Awareness Month (ISAM), there is no better time to announce the Wisconsin Invasive Species Council (WISC) Invader Crusader award winners. IPAW would like to recognize our own president, Christa Schaefer, as well as Jeff Epping, Jared Urban, Robert and Dorothy Moe, Pam Nelson, Daniel Pawlak, Mark Acherman, and the Friends of the Eau Claire Lakes Area (FOTECLA) and the Town of Barnes Aquatic Invasive Species Committee (TOBAISC) for their significant contributions to the prevention, control, and eradication of invasive species in Wisconsin.

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Invader Crusader Award Winners Continued

For the past four years, **Christa Schaefer** has served as President of the Invasive Plants Association of Wisconsin (IPAW) board, a position through which she has worked tirelessly to combat invasive species in Wisconsin. She has encouraged greater communication and support for Wisconsin's Cooperative Invasive Species Management Areas (CISMAs). Christa has overseen IPAW educational displays, serves on the Upper Midwest Invasive Species Conference advisory committee, is a board member for the National Association of Invasive Plant Councils, and has been involved in the U.S. Green Building Council. In addition, as an employee of the Wisconsin Department of Transportation (WisDOT), Christa has consistently advocated for preventing the spread of invasive species on roadsides by setting up a program to allow volunteers to control invasives on state highway corridors, training state and county maintenance staff, ensuring that prohibited species are controlled on state highways, and many other efforts. For several years she has chaired the Council's Education Committee that oversees ISAM. Christa's hard work and dedication to fighting invasive plants in Wisconsin has made a significant contribution to the management and awareness of invasive species in Wisconsin.

Jeff Epping, the Director of Horticulture at Madison's Olbrich Gardens, has influenced invasive plant management through his efforts encouraging gardeners to use native and well-behaved non-native plants. He regularly appears on Wisconsin Public Radio's Garden Talk show and frequents garden expos across the upper Midwest. In addition, Jeff has assisted in developing management plans and conducting studies on control of invasive plants and jumping worms in collaboration with state agencies, horticulturalists, and researchers. He has repeatedly advocated for measures to prevent the spread of invasive species, fighting for the removal of invasives before there were any signs that the species might become invasive. In the past, he has addressed numerous established invasive populations. Jeff's dedication to educating gardeners and preventing the spread of invasives has been vital to combating the effects of these species.

Jared Urban serves as coordinator of the Department of Natural Resource's State Natural Areas (SNA) volunteer program. Since joining the DNR in 2011, Jared has developed a structured volunteer program for citizens interested in helping to manage Wisconsin's SNAs. This program began in southern Wisconsin and has since begun expanding to other parts of the state. Jared's SNA volunteer program actively recruits, trains, and supports volunteers and, consequently, has significantly increased the quality and efficiency of volunteer work. As of 2016, the program included more than 250 volunteers in 29 groups. Jared oversees the work that the groups do by visiting sites to prioritize projects for the upcoming year and providing suggestions and assistance coordinating DNR tools and supplies throughout the year. In addition to his hands-on work with SNA volunteers, Jared created a handbook to help the lead volunteers to recruit, train, and retain other volunteers. Jared's enthusiasm and dedication to restoration efforts and invasive species control has helped to manage invasive species in many of Wisconsin's SNAs.

Robert and Dorothy Moe have worked tirelessly to control purple loosestrife in the areas surrounding Bear Lake, protecting the Bear Lake Sedge Meadow State Natural Area and the lake's wild rice populations from the effects of the invasive plant. The Moes have donated many hours of volunteer work and the use of their pontoon boat and equipment to the Barron County Department of Land Services in order to control purple loosestrife on Bear Lake. Additionally, each year they have surveyed the lake and provided the department with detailed information regarding the locations and amount of purple loosestrife, then developed a plan on where to distribute *Galerucella* beetles raised on their property in order to best control purple loosestrife. Furthermore, the Moes are passionate about educating other Bear Lake residents on the impacts of invasive species. Their dedication to invasive species control and education has helped to ensure the health of the Bear Lake ecosystem for years to come.

Pam Nelson has been involved with invasive species management on Horseshoe Lake, ever since Eurasian water milfoil was discovered on the lake 9 years ago. Initially serving on the committee to collaborate with the DNR and investigate possible control methods for the invasive species, she later took on the role of Invasive Species Coordinator for the lake association, spearheading a plan to control milfoil and maintain the lake's ecosystem. Currently, the Horseshoe Lake Improvement Association regularly monitors the lake for invasives, has scuba divers that pull milfoil found on the lake, and regularly applies chemicals in collaboration with a lake management firm and the DNR to mitigate the milfoil. Additionally, Pam has helped to organize educational initiatives at events reaching people of all ages, involving local residents in ecosystem management.

Invader Crusader Award Winners Continued

Daniel Pawlak has served as a volunteer parent at Eagleville Elementary Charter School for the past four years. When he began volunteering, Dan started an afterschool science club which now has about 30-40 students each year. From 2014-2015, he focused on invasive species, educating students in grades 1-6 about the impacts of invasives on the local ecosystem, focusing on Jericho Creek, a nearby tributary of the Mukwonago River. With Dan's mentorship, students have learned to identify, monitor, and prevent the spread of invasive species. One of his projects involved the invasive Asiatic clam; with his help, students searched the creek for native and invasive clams. No Asiatic clams have yet been found, but Dan plans to continue this in the future to monitor the area. Through Dan's mentorship, countless students have become more aware of invasive species in their area and have gained a greater appreciation for the natural world around them. Dan's hard work has paved the way for the next generation of environmental stewards.

Mark Acherman has worked to educate his 5th, 6th, and 7th grade classes on invasive species, in particular, aquatic invasive species, and has influenced the next generation to be responsible stewards of the environment. He and his more than 50 students each year have created posters intended to educate students and community members on the importance of invasive species control, and by doing so have reached many individuals throughout the community. He is an active fisherman and will take students fishing on occasion, often taking the opportunity to explain more about invasives and strategies that can be used to prevent their spread. In addition to educating his students, Mark has raised biocontrol beetles to prevent the spread of purple loosestrife at various sites, including Yellowstone Lake. Through his dedication to invasive species awareness and management Mark has brought awareness and action to many young people.

The **Friends of the Eau Claire Lakes Area (FOTECLA)** and the **Town of Barnes Aquatic Invasive Species Committee (TOBAISC)** are recognized for their commitment to prevention, management, and education related to invasive species in the surrounding lakes and rivers. With substantial funding from FOTECLA, TOBAISC was able to research and build a Diver Assisted Suction Harvester (DASH) boat, which allows for much more effective and efficient removal of invasive plant species in lakes and waterways. They are the first organization in the region to independently develop and build their own boat. In addition to the DASH boat, the two organizations have also collaborated to develop the Lake Ecology Education Program, or LEEP. Downloadable as a full curriculum from their website, LEEP has been used as a program for approximately 30 Drummond 7th graders each year. This program educates students on natural resource conservation, integrating invasive species education, as well.

Please join us to celebrate the Invader Crusader award recipients with a ceremony at the MacKenzie Environmental Center in Poynette, WI on Thursday, June 8th at 1:00 PM.

Congratulations to all of those who were nominated and to all of the winners!

IPAW's 2016 Annual Meeting

On March 15, 2107 IPAW hosted its Annual Meeting in conjunction with the annual Cooperative Invasive Species Management Areas (CISMAs) meeting at the University of Green Bay. More than 50 people attended the meeting. Individuals representing 9 different CISMAs throughout the state of Wisconsin were in attendance, along with a number of IPAW members and board members.

This was a perfect opportunity for all of the CISMAs to discuss what has been successful for them and what has not. As a reminder to the CISMAs, IPAW may have some funds available for you to attend an event. Click [here](#) for more information.

IPAW sponsored the lunch for all of those in attendance and held their Annual Meeting. John Lunz, IPAW Secretary, presented the annual report. If you would like to see IPAW's 2016 Annual Report, you can do so [here](#).

Don't forget to Like
IPAW on Facebook!



Save the Date!

Where Ecology Meets Economy Season 5

A Forum for Green Industry & Land Manager Professionals – This educational event continues to stimulate change and improve communication, operations and business for professionals in both arenas.

September 20, 2017
8:00 am – 3:30 pm
Menomonee Falls, Wisconsin

This year's topic will focus on "Realistic Restoration." Three speakers will discuss their projects, including a prairie, a savanna, and a woodland, complete with cost analysis. The speakers will then join a panel to answer questions. For more information, watch [SEWISC's website](#).

IPAW Board Members:

Christa Schaefer, IPAW President,
Wisconsin Department of
Transportation

Mark Feider, IPAW Vice
President, Milwaukee Audubon
Society

Willis Brown, IPAW Treasurer,
Michler and Brown, LLC

John Lunz, IPAW Secretary, The
Park People – Weed-Out Program,
The Wild Ones, Preserve Our Parks

Mic Armstrong, Armstrong
Landscaping

Thomas Boos II, Montana Fish,
Wildlife & Parks

Greg Bunker, Stockbridge-Munsee
Community

Jeremy Chiamulera, Compass
Land Consultants, Inc.

Angelique Dahlberg, St. Croix
River Association

Jerry Doll, University of Wisconsin
– Extension

Heidi Kennedy, Short Elliott
Hendrickson Inc.

Jamie Nuthals, Integrity's Energy
Group

Diane Schauer, Calumet County

Tony Summers, Wisconsin First
Detector Network

Patricia Trochlell, Wisconsin
Department of Natural Resources

Newsletter Information:

Plants Out of Place is a periodic newsletter distributed to Invasive Plants Association of Wisconsin members.

Send comments, suggestions, and articles that you think may be of interest to IPAW at info@ipaw.org

You can support
IPAW each and every
time you shop at
[AmazonSmile!](#)

IPAW's Mission:

"To promote better stewardship of the natural resources of Wisconsin by advancing the understanding of invasive plants and encouraging the control of their spread."