

IN THIS ISSUE:

[EDITOR'S NOTE](#)

[EDITOR'S CHOICE](#)

[NATIONAL NEWS](#)

[STATE NEWS](#)

[WETLAND SCIENCE NEWS](#)

[RESOURCES & PUBLICATIONS](#)

[POTPOURRI](#)

[CALENDAR OF EVENTS](#)

[INDEX](#)



To view the April issue of *Wetland Breaking News* as well as past issues on our website, please [click here](#).

Visit [ASWM](#) online to read weekly news updates between issues.

Please send comments and news stories to news@aswm.org.

Thank you for your continued interest.



All photos by Jeanne Christie, ASWM

EDITOR'S NOTE

Dave Davis, Virginia, Winner of National Wetlands Award 2015

ASWM is very pleased to announce that Dave Davis, Director of the Virginia Department of Environmental Quality's (DEQ) Office of Wetlands & Stream Protection won the 2015 National Wetlands Award for State, Tribal and Program Development, sponsored by the Environmental Law Institute. ASWM nominated Dave in recognition of his many accomplishments and, well, because we think he's such a great guy. In fact, he was the National Chairman of ASWM's Board of Directors for two terms, from 2010 – 2014.



Fans of Dave who wrote letters of recommendation include: Ellen Gilinsky, Senior Policy Advisor to the Acting Assistant Administrator for Water at the US Environmental Protection Agency (US EPA); Melanie Davenport, Director of Virginia's Water Division; Regina Poeske, Senior Ecologist for the US EPA Region III; Kirk Havens, Director of the Coastal Watersheds Program at the Virginia Institute of Marine Science; and Michael Rolband, President of Wetland Studies and Solutions, Inc.

Here are some wonderful quotes from their letters of support:

"His actions and positive attitude have significantly advanced the science and management of wetlands in the Commonwealth of Virginia and served as an example to other state programs."

"His initiative was the key factor in the creation of Virginia's Wetland Monitoring and Assessment Strategy."

"I can say without reservation that Dave's embrace of cutting edge science and a strong wetland program based on science has been a remarkable catalyst for not only Virginia's wetland program but for all the states in the Mid-Atlantic."

"Under Dave's leadership, Virginia's nontidal wetlands program has advanced to the point of being recognized nationwide for its innovative, interactive, and comprehensive wetland condition assessment online database."

"Mr. Davis is available anytime to the regulated public to solve issues that are not covered by the black and white letter of the regulation."

For those of you who would like to be there to congratulate Dave as he receives his award, the ceremony will be held in Washington, DC on Thursday, May 21 at 6:00 p.m. [More information can be found here](#).

Best regards,

Marla J. Stelk, Editor
Wetland Breaking News



EDITOR'S CHOICE

EPA sends controversial water pollution rule to White House

By Timothy Cama – The Hill – April 6, 2015
The Environmental Protection Agency (EPA) on Monday sent to the White House its controversial regulation to redefine the extent of its authority over water pollution control. EPA head Gina McCarthy said the final version of the rule reflects some changes the agency made to the regulation that had been cast as a massive land grab by Republicans, agricultural interests and others. While the administration is mostly keeping quiet about the final version of the rule, McCarthy outlined some points

Monday in a blog post with Jo-Ellen Darcy, who oversees the Army Corps of Engineers, which is developing the rule with the EPA. "In the final rule, people will see that we made changes based on those comments, consistent with the law and the science," they [wrote](#). "We've worked hard to reach a final version that works for everyone — while protecting clean water." For full story, [click here](#).

USDA to provide \$332 million to protect and restore agricultural working lands, grasslands and wetlands

Contact: Sylvia Rainford – USDA NRCS – March 31, 2015

Agriculture Secretary Tom Vilsack today announced that U.S. Department of Agriculture is making available \$332 million in financial and technical assistance through the [Agricultural Conservation Easement Program \(ACEP\)](#). USDA's Natural Resources Conservation Service (NRCS) will accept ACEP applications to help productive farm and ranch lands remain in agriculture and to protect the nation's critical wetlands and grasslands, home to diverse wildlife and plant species. For full news release, [click here](#).

Small wetlands critical to overall ecosystem functions

By Bob Berwyn – Summit County Citizens Voice – March 30, 2015

A new study by researchers at Waterloo University supports the EPA's proposed new rule for protecting discontinuous wetlands by showing that those smaller marshy patches function best as a group. Interconnected pockets of wetlands form a landscape mosaic which provides unique habitat and safe breeding grounds for species such as salamanders and migratory birds. Many traditional wetlands conservation projects tend to overlook that "edge" function and mistakenly focus on preserving only total wetland area, with no consideration of ecosystem services provided by different wetland types. The study, published in the peer-reviewed journal *Ecological Applications*, shows wetland loss follows a strong pattern, with smaller, isolated wetlands being lost in much greater numbers than larger wetlands. For full story, [click here](#).

Rise in government insurance rates to mirror rising waters, flood debt

By Darryl Fears – The Washington Post – March 28, 2015

At her small beach house that sits in a flood zone, Nancy Loft-Powers worries. The prospect of rising water, she said, isn't what bothers her. It's the expected rise in the cost of her \$7,500 yearly flood insurance. "My insurance is more than my mortgage," Loft-Powers said in a phone interview from her year-round home in Deerfield Beach, Fla., near Fort Lauderdale. "I live by the beach in an old neighborhood. I pay [too much] insurance for a crap house that's not great." This April Fool's Day, when a congressional act that revised federal insurance premiums goes into effect, coastal homeowners such as Loft-Powers say the joke will be on them. The government is slowly phasing out subsidized flood insurance for more than a million Americans with houses in flood zones who, in some cases, pay half the true commercial rate. For full story, [click here](#).

Growth in coastal areas may expose 1B people to sea-level rise by 2060

By Coco Liu – E & E Publishing, LLC – March 20, 2015

While residents in Vanuatu are still battling flash floods caused by a devastating tropical cyclone last week, a study says coastal population growth may make storm threats from the sea a global crisis within a few decades. In a paper published recently in the journal *PLOS ONE*, a team of researchers from several Western institutes estimated the number of people living in low-elevation coastal zones, as well as the scale of the population at risk from one-in-100-year storm surge events, by using scenario-based projections. For full story, [click here](#).

ASWM's Wetland Restoration Webinar: Vernal Pool Restoration – How to Restore the Landscape – April 21, 2015

Wetland Restoration Webinar: Vernal Pool Restoration – How to Restore the Landscape will be held on April 21, 2015 at 3:00 p.m. ET. Presented by Mick Micacchion, Midwest Biodiversity Institute; Christina M. Schaefer, Schaefer Ecological Solutions; and Aram J.K. Calhoun, The University of Maine. For more information, [click here](#). To register, [click here](#).



ASWM's Members' Webinar: Assessment of Wetland Mitigation Success: Findings from a New Study on Massachusetts Wetland Replication Projects

Members' Webinar: Assessment of Wetland Mitigation Success: Findings from a New Study on Massachusetts Wetland Replication Projects will be held on April 29, 2015 at 3:00 p.m.-5:00 p.m. ET. Presented by Lisa Rhodes, Massachusetts Wetland Program, Massachusetts Department of Environmental Protection and Scott Jackson, University of Massachusetts at Amherst. For more information, [click here](#).



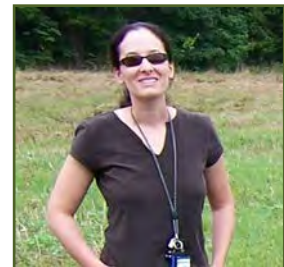
NFFA Webinar: Square Peg, Round Hole – Maximizing Conservation in a Flood-Insurance Construct

The Natural Floodplain Functions Alliance webinar on Square Peg, Round Hole – Maximizing Conservation in a Flood-Insurance Construct will be held on May 5, 2015 at 3:00 p.m. ET. Presented by Bonnie Shorin, NOAA. For more information, [click here](#). To register, [click here](#).



Wetland Mapping Consortium (WMC): Mapping Forested Wetland Inundation using LiDAR Intensity Data – May 20, 2015 – 3:00 p.m. ET

Wetland Mapping Consortium Webinar: Mapping Forested Wetland Inundation using LiDAR Intensity Data will be held on May 20, 2015 at 3:00 p.m. ET. Presented by Megan Lang, University of Maryland. For more information, [click here](#).





NATIONAL NEWS

NRCS Targets More Watersheds to Improve Water Quality

NRCS – April 9, 2015

Farmers and ranchers in five Missouri watershed areas are eligible for financial assistance from the USDA Natural Resources Conservation Service (NRCS) to help them install conservation measures that will contribute to cleaner water flowing into the Mississippi River and, ultimately, the Gulf of Mexico. The five areas are among 27 watersheds selected in 13 states along the Mississippi River as part of continuing Mississippi River Basin Healthy Watersheds Initiative (MRBI) efforts. The announcement of new MRBI

watershed areas in Missouri will make \$7.8 million in financial assistance available over the next four years to address critical natural resource concerns in the priority watersheds. For full news release, [click here](#).

EPA likely won't have to adopt more stringent restrictions on nutrients in Mississippi River, appeals court rules

By Mark Schleifstein –NOLA.com-The Times-Picayune – April 8, 2015

A federal appeals court Tuesday (April 7) ordered a New Orleans federal judge to reconsider his ruling that the Environmental Protection Agency must decide whether more stringent rules are needed to curb the flow of fertilizer and other nutrient pollutants into the Mississippi River to stem the size of a low-oxygen "dead zone" that forms along Louisiana's coast each spring. For full story, [click here](#).

USDA funding to help clean waterways in Mississippi River basin

Contact: Justin Fritscher – USDA NRCS – April 7, 2015

Targeted conservation work in the Mississippi River basin will unite the United States Department of Agriculture (USDA), farmers and local organizations to help clean waterways that flow into the nation's largest river. USDA's Natural Resources Conservation Service (NRCS) is investing \$10 million this year in 27 new high-priority watersheds and 13 existing projects that will help improve water quality and strengthen agricultural operations. This investment is part of a commitment of \$100 million over four years to address critical water quality concerns in priority watersheds while boosting rural economies. For full news release, [click here](#).

President Obama approves Arctic drilling

By Kevin Mathews – Environmental News Network – April 5, 2015

President Barack Obama has seemingly spent a lot of his second term trying to cement his reputation as one of the United States's most environmentally conscious leaders. However, his most recent decision to approve controversial oil and gas drilling in the Arctic is certain to lose him favor within the environmental community. How can he preach about the consequences of global warming and carbon emissions and simultaneously give corporations permission to drill in a vulnerable region for decades to come? For full story, [click here](#).

It's Almost Impossible To Find Data On Oil And Gas Spills In Most States

By Kate Sheppard – Huffington Post Green – April 1, 2015

A new report from the environmental group Natural Resources Defense Council has analyzed the data on spills and other violations at oil and gas wells across the country. But perhaps the most interesting aspect of the report is how little data the group was able to turn up. Based on NRDC's evaluation of dozens of state databases, only three states -- West Virginia, Pennsylvania and Colorado -- have easily accessible, publicly available data on spills and other violations. That's three states out of 36 that have active oil and gas development. For full story, [click here](#).

EPA will require weed-resistance restrictions on glyphosate herbicide

By Carey Gillam – REUTERS – March 31, 2015

U.S. regulators will put new restrictions on the world's most widely used herbicide to help address the rapid expansion of weeds resistant to the chemical, Reuters has learned. The Environmental Protection Agency confirmed it will require a weed resistance management plan for glyphosate, the key ingredient in Monsanto's immensely popular Roundup weed-killer. The agency has scheduled a conference call for next week with a committee of the Weed Science Society of America to discuss what the final plan for glyphosate should entail, said Larry Steckel, a Tennessee scientist who chairs the committee. For full story, [click here](#).

Environmental group seeks greater protection for USDA scientists

By Carey Gillam – REUTERS – March 27, 2015

An environmental activist group has filed a legal petition with the U.S. Department of Agriculture seeking new rules that would enhance job protection for government scientists whose research questions the safety of farm chemicals. The action filed on Thursday by the Public Employees for Environmental Responsibility, an advocacy group for local, state and federal researchers, came less than a week after a World Health Organization group found the active ingredient in Roundup, the world's best-selling weed killer, is "probably carcinogenic to humans." Roundup is made by Monsanto Co. The petition to the USDA presses the agency to adopt policies to prevent "political suppression or alteration of studies and to lay out clear procedures for investigating allegations of scientific misconduct." For full story, [click here](#).

EPA Awards Great Lakes Restoration Initiative Grants to Reduce Runoff that Contributes to Algal Blooms

Contact: Peter Cassell – EPA – March 26, 2015

The U.S. Environmental Protection Agency today announced the award of 14 Great Lakes Restoration Initiative grants totaling over \$17 million to fund projects that will improve Great Lakes water quality by preventing phosphorus runoff and soil erosion that contribute to algal blooms and by reducing suspended sediments in Great Lakes tributaries. For full news release, [click here](#).

Environmentalists play 'Whac-A-Mole' to stall crude-by-rail projects

By Ellen M. Gilmer and Blake Sobczak – E & E Publishing, LLC – March 20, 2015

When an oil company's expansion plans for Pacific Northwest crude by rail suffered a major setback last month, environmentalists spread the news just as quickly as they could Google "Skagit County Hearing Examiner." The little-known local office about an hour north of Seattle holds the keys to land use in the area, and environmental attorneys saw it as the best shot to stall a rail extension considered critical for the delivery of crude oil to a nearby Shell Oil Co. refinery, but potentially disastrous for nearby estuaries and communities. For full story, [click here](#).

EPA official: Water rules needed but 'weren't crystal clear'

By Dan Voorhis – The Wichita Eagle – March 16, 2015

U.S. Environmental Protection Agency Administrator Gina McCarthy said Monday that she regretted how her agency handled the rollout of the controversial "Waters of the U.S." rules that have many farm leaders complaining about federal infringement on private property. She spent most of her 30-minute talk saying she wished her agency had done a better job of explaining how the EPA defined which bodies of water were regulated under the Clean Water Act. For full story, [click here](#).



STATE NEWS

CA: Brown orders California's first mandatory water restrictions: 'It's a different world'

By Chris Megerian, Matt Stevens and Bettina Boxall – LA Times – April 1, 2015
Standing in a brown field that would normally be smothered in several feet of snow, Gov. Jerry Brown on Wednesday ordered cities and towns across California to cut water use by 25% as part of a sweeping set of mandatory drought restrictions, the first in state history. The directive comes more than a year after Brown asked for a 20% voluntary cut in water use that most parts of the state have failed to attain, even as one of the

most severe modern droughts drags into a fourth year. It also came on the day that water officials measured the lowest April 1 snowpack in more than 60 years of record-keeping in the Sierra Nevada. For full story, [click here](#).

CA: In California, Beavers are essential to recovering wild salmon

By Miria Finn – Environmental News Network – March 1, 2015

With California's wild Coho salmon populations down to 1% of their former numbers, there's growing evidence that beavers - long reviled as a pest of the waterways - are essential to restore the species, writes Maria Finn. In the process, they raise water tables, recharge aquifers and improve water quality. What's not to love? For full story, [click here](#).

CO: Environmental groups sue over Wolf Creek objections

By Dale Rodebaugh –The Durango Herald – March 26, 2015

Three environmental organizations say the U.S. Forest Service gave them the back of its hand as a response to their objections to a Texas developer's plan to develop a year-round community at almost 11,000 feet elevation at Wolf Creek Pass. In answer, the San Juan Citizens Alliance, Rocky Mountain Wild and the San Luis Valley Ecosystem Council said Thursday they have filed two lawsuits in Federal District Court to force the Forest Service to supply agency records requested through the Freedom of Information Act. For full story, [click here](#).

FL: The Snake That's Eating Florida

By Clyde Haberman – The New York Times – April 5, 2015 – Video

Ever since a serpent enticed Eve to munch on that forbidden fruit in the Garden of Eden, relations between humans and snakes have been at best strained. But at least the gullible Eve and her mate had to cope with just the one snake. In South Florida, wildlife officials have struggled for years with tens of thousands of the creatures: specifically, a species known as the Burmese python, an interloper from Southeast Asia that has taken up what looks like permanent residence in Everglades National Park and other areas of the state. For full story and to view video, [click here](#).

FL: Rising seas bring heavy burden to Florida coastal economy. Can it adapt?

By Karl Havens – The Conversation – March 16, 2015

Florida is a coastal state. Nearly 80% of its 20 million residents live near the coast on land just a few feet above sea level, and over a hundred million tourists visit the beaches and stay in beach-front hotels every year. The coastal economy in Florida is estimated to account for 79% of the state's gross domestic product, a measure of direct revenue into the economy. People living and working on the Florida coast face threats from hurricanes and storm surge, sometimes more than once a year. For full story, [click here](#).

LA: Dispersant used in BP spill might cause damage to human lungs, fish, crab gills, new study says

By March Schleifstein – NOLA - The Times-Picayune – April 3, 2015

The dispersant most often used during the BP Deepwater Horizon oil spill might cause damage to cells in human lungs and in the gills of fish and crabs, according to a study published Thursday in a peer-reviewed scientific journal. The study by researchers at the University of Alabama at Birmingham, [published in the PLOS One online journal](#), also found that an enzyme triggered by the Corexit 9600 dispersant compound in humans and animals might be used to protect against the harm caused by the chemicals in the dispersant. Cough, shortness of breath and sputum production were among symptoms expressed by workers." For full story, [click here](#).

LA: Deepwater oil spill: BP steps up PR effort to insist all is well in the Gulf

By Peter Moskowitz – The Guardian – March 31, 2015

In the run-up to the five-year anniversary of the Deepwater Horizon spill this April, BP is ramping up its effort to convince consumers that life is returning to normal on the Gulf coast. Over the last month, the company has released PR materials that highlight the Gulf's resilience, as well as a report compiling scientific studies that suggest the area is making a rapid recovery. But evidence is mounting that five years after millions of gallons of oil spilled into the Gulf of Mexico, wildlife is still struggling to rebound. For full story, [click here](#).

LA: High Mississippi, Atchafalaya rivers pouring sediment into Louisiana wetlands, lakes, Gulf

By March Schleifstein – NOLA - The Times-Picayune – March 27, 2015

The rising Mississippi and Atchafalaya rivers are carrying a wealth of sediment -- clearly visible from space -- into coastal wetlands, Lake Pontchartrain and other coastal lakes, and the Gulf of Mexico, according to a Friday (Mar. 27) image from NASA's MODIS satellite. The high-river sediment arrives in southern Louisiana after being washed off farmland in the Midwest along the upper Mississippi River, and similar farmland in the Ohio Valley. A combination of rainfall and melting snow from repeated cold fronts that have crossed those segments of the country in recent weeks has washed the sediment into tributaries of the Mississippi and Ohio rivers. For full story, [click here](#).

MD: Phosphorus regs published, go to public comment

By Phil Davis – DelmarvaNow – April 6, 2015

The revised regulations to restrict phosphorus use on farm crops [were published in the Maryland Register on Friday](#) and will now enter a 30-day public comment period. Their publication in the Register, a bi-weekly publication meant to encompass various actions like the regulations or governor's executive orders, comes after a month of back and forth between Republican Gov. Larry Hogan, environmental advocates, agricultural experts and state legislators to reach a deal on their implementation. As written, all farmers will have until July 1, 2022, to fully implement the "phosphorus management tool," a set of restrictions on how much phosphorus can be used on crop fields. For full story, [click here](#).

MI: The way we use land in the Great Lakes region is changing

By Rebecca Williams – Michigan Radio – March 25, 2015

More than 7,000 square miles of land in the Great Lakes region changed in some way from 1996 to 2010. That's roughly equal to the surface area of Lake Ontario. That's according to a new [report](#) from the National Oceanic and Atmospheric Administration. Researchers at NOAA used satellite maps to study our cities, forests and wetlands. Not surprisingly, they found most of the development during that time period happened around our big cities: Chicago, Detroit, Grand Rapids and Milwaukee. Nate Herold is with NOAA's Office for Coastal Management. He says they also found a net loss of forest land in the region. For full story, [click here](#).

MI: Volunteers in forefront of monitoring Great Lakes streams

By Qing Zhang – Great Lakes Echo – March 30, 2015

The Michigan Clean Water Corps (MiCorps) will announce the winners of a new round of grants for volunteer stream monitoring projects by June. Three grants worth a total of \$50,000 are available to survey aquatic macroinvertebrates and to inventory where railroads cross streams. "This year we received 10 applications for the stream grants. I expect about five or six of them will be funded," said Paul Steen, the program manager for the network of volunteer monitoring projects. For full story, [click here](#).

MN: Minnesota's already at-risk wetlands will be in greater danger if SF 1515 passes

By Judy Helgen – MinnPost – March 26, 2015

Most people are not aware that proposed revisions to the state's Wetlands Conservation Act, as outlined in [SF 1515](#), will greatly endanger wetlands that are already at risk in Minnesota. The revisions in the bill, inexplicably sponsored by Sen. John Marty, will work against Gov. Mark Dayton's Executive Order 12-04. Dayton has asked agencies to "assess potential changes to current policies that will improve wetland conservation in Minnesota in a manner that maintains and restores the integrity of Minnesota's wetlands." Instead, wetlands protections are about to take a major step backward. For full story, [click here](#).

MN: Demand high for wetlands program

Echo Press – March 25, 2015

The Minnesota Board of Water and Soil Resources (BWSR) announced the results of the 2015 ReInvest in Minnesota (RIM) Wetlands program sign-up. During this year's sign-up, 44 applications were funded, putting 4,655 acres into permanent protection. "Landowner interest in RIM programs has historically been high, and the applications we received for the RIM Wetlands program continue that trend," BWSR easement section manager Bill Penning said. "With the help of our local partners, we were able to work quickly to get this program up and running." For full story, [click here](#).

MO: NRCS Funding Available to Protect Wetlands and Other Agricultural Land

USDA NRCS

The USDA's Natural Resources Conservation Service (NRCS) has \$3.9 million available to help Missouri landowners restore wetlands and \$757,000 available for easements to protect agricultural land from conversion to non-agricultural uses. The funding is part of a \$332 million national effort by USDA to protect and restore key farmlands, grasslands and wetlands through NRCS' Agricultural Conservation Easements Program (ACEP). For full news release, [click here](#).

NJ: Chris Christie's deal with ExxonMobil: first look

By Bob Jordan – app.com – April 6, 2015

The first unfettered public look at Gov. Chris Christie's pending pollution settlement with ExxonMobil has done nothing to quiet critics who say New Jersey is being ripped off by the oil giant. The Christie administration Monday opened a 60-day comment period on the agreement, publishing documents on the controversial deal requiring ExxonMobil to pay New Jersey \$225 million to resolve liability for damage caused by contamination from refinery operations in Bayonne and Linden. Department of Environmental Protection officials said the amount represents the state's largest natural resource damages settlement amount ever, but Jeff Tittel, head of the New Jersey Sierra Club, called the agreement "the largest sellout in state history." For full story, [click here](#).

OH: Ohio EPA tries to block Cleveland harbor sediment from being dumped in Lake Erie

By Sabrina Eaton – Cleveland.com – March 31, 2015

The Ohio Environmental Protection Agency on Tuesday issued a permit that would allow the U.S. Army Corps of Engineers to dredge Cleveland's harbor, but not permit it to put any of the dredged material in Lake Erie. Although the Army Corps of Engineers says sediment from part of the shipping channel is clean enough to be placed in the open lake, OEPA worries it's still polluted with PCBs that endanger fish. OEPA wants all the material placed in a confined disposal facility that holds sediments from the shipping channel. For full story, [click here](#).

OH: Bill to cut Lake Erie toxic algae goes to Ohio governor

By Ann Sanner – The Detroit News – March 26, 2015

New rules for farmers aimed at reducing the toxic algae in Lake Erie won unanimous approval from the Legislature on Wednesday and were headed to the governor for his expected signature. The wide-ranging bill would stop farmers in northwestern Ohio from spreading manure on frozen and rain-soaked fields. It also would bring an end to the dumping of dredged sediment in the lake within five years. Both are thought to be contributing to the growth of algae in the lake. For full story, [click here](#).

PA: Fracking Study on Water Contamination Under Ethics Review

By Neela Banerjee – Inside Climate News – April 6, 2015

Drinking-water wells in Pennsylvania close to natural gas sites do not face a greater risk of methane contamination than those farther away, according to [a new study published in *Environmental Science & Technology \(ES&T\)*](#). But the study is now being called into question because of its methodology and some undisclosed ties to energy giant Chesapeake Energy. The findings contradict recent studies that identified a correlation between proximity to natural gas wells and higher methane levels in well water. The new study analyzed more than 11,000 water samples collected by Chesapeake and provided to researchers. For full story, [click here](#).

PA: EPA warns Pennsylvania it is coming up short in making sure farmers have anti-runoff plans

By Ad Crable – Lancaster Online – March 16, 2015

Pennsylvania is not doing enough to make sure farmers have required on-the-farm plans to control manure and soil erosion, the federal Environmental Protection Agency says. In addition, EPA warned that “additional state policies and programs are likely to be necessary for implementing agricultural conservation practices that reduce nitrogen, phosphorus and sediment pollution.” For full story, [click here](#).

RI: Compromise Reached for Building Near R.I. Wetlands

By Tim Faulkner – ecoRI News – March 29, 2015

A new statewide standard for building near wetlands has support from the construction industry and from environmentalists. But if approved, the zoning change would allow construction closer to wetlands in six Rhode Island communities and shift much of the jurisdiction over granting exemptions to the state. The proposed distance for building near wetlands, known as a setback, is 100 feet from lakes and ponds and 200 feet from rivers, streams and reservoirs. A 50-foot no-build zone is currently the default state benchmark, but 24 communities have different buffer standards. Barrington, Burrillville, Charlestown, Middletown, North Smithfield and Tiverton have setbacks of up to 200 feet for some of their wetlands. Coastal wetland permits would still be managed by the Coastal Resources Management Council (CRMC), which typically requires a 200-foot setback. For full story, [click here](#).

TX: Man-made wetlands a blessing for migratory birds

Springfield News-Leader – March 25, 2015

A man-made wetlands has become a magnet for migratory birds along the Central Flyway, including thousands of birds that pass through Missouri. On the Navarro-Freestone County line, about 110 miles southeast of Fort Worth, Texas Parks and Wildlife's Richland Creek Wildlife Management Area has seen bird counts climb when the wetlands recently grew to 2,000 acres at the end of 2013. The Fort Worth Star-Telegram reports on a gray, cloudy day last week, there were a variety of birds — from bald eagles to white-faced ibis — but the wetlands were overwhelmingly populated by ducks. For full story, [click here](#).

VT: Vermont House approves water cleanup bill

By Dave Gram – Fairfield Citizen – April 2, 2015

The Vermont House on Thursday passed and sent to the Senate a bill that raises more than \$8 million for efforts to clean up Lake Champlain and other waters of the state. The bill takes aim at runoff laden with phosphorus and other pollutants coming from farms, roads, roofs and parking lots. It imposes \$2.3 million in new fees on owners of those properties, as well as cities and towns, and it levies a new 0.2 percent surcharge on Vermont's property transfer tax. It also steps up enforcement against polluters. For full story, [click here](#).

VA: Norfolk coastline gets \$18 million boost

By Deanna LeBlanc – WAVY.com – March 30, 2015

A new partnership signed last month between the city of Norfolk and U.S. Army Corps of Engineers' Norfolk District will address protecting seven miles of Norfolk coastline from the impact of coastal storms. According to a city press release, the partnership is unprecedented in the city's 333-year history. “The sea level fight starts right here, right now, and I'm proud to be a part of it,” said Colonel Paul Olson with the U.S. Army Corps of Engineers at a press conference in Norfolk Monday. The new project, called the Willoughby Spit and Vicinity project, will add 60 feet of coastline to about seven miles of city beaches.

According to a city press release, will improve “shoreline and adjacent land area extending along the Chesapeake Bay from the eastern limit at the jetties of Little Creek Inlet to the western limit at the tip of Willoughby Spit.” For full story, [click here](#).

VA: The Significance of the Nexus for Wetlands Jurisdiction: Recent Fourth Circuit Decision Supports the Corps' Determination of Jurisdiction

By Margaret N. Strand, Amy J. McMaster, et. al. – Venable – March 2015

In a recent unpublished opinion for *Precon Development v. U.S. Army Corps of Engineers*, the Court of Appeals for the Fourth Circuit upheld a lower court's ruling determining that the U.S. Army Corps of Engineers (Corps) had correctly asserted jurisdiction over wetlands pursuant to the Clean Water Act (CWA). The Court's decision marks another milestone in the 13-year battle over Precon Development Corporation's proposed housing development in Chesapeake, Virginia and provides greater detail than prior court applications of Justice Kennedy's "significant nexus" jurisdiction standard from *Rapanos v. United States*. Following a 2011 Circuit decision, *Precon 1*, which addressed the nexus and remanded for proof of significance, this 2015 decision upholds the Corps' demonstration of significance. The combined opinions in the *Precon* case are the first to address nexus in detail and to address an evidentiary showing of significance. For full story, [click here](#).

WA: Draft plan to clean up Deschutes watershed out for review - Comment on the cleanup plan through May 27

Contact: Chase Gallagher – Washington Department of Ecology – April 13, 2015

With Thurston County's growing population, water quality in the Deschutes River has declined. As a part of continued efforts to restore water quality, the Department of Ecology has released a [draft water cleanup plan](#) for the Deschutes River, and is hosting public meetings as part of a comment period over the next six weeks. The draft plan looks at the total maximum daily load of pollution that enters the river. This plan focuses on the river above Tumwater Falls and on freshwater streams flowing to Budd Inlet. A second phase will later look at water quality in Capitol Lake and Budd Inlet. For full news release, [click here](#). The [draft report is available online](#), and printed copies are available at Ecology's Southwest Regional office in Lacey at 300 Desmond Dr. SE, and at the Tumwater Regional Public Library at 7023 New Market Street. Ecology is asking for public comment during an extended 45-day comment period from April 13 to May 27, 2015. Public comments must be received by 5 p.m. May 27, 2015.

WV: Freedom Industries, state sign spill site cleanup agreement

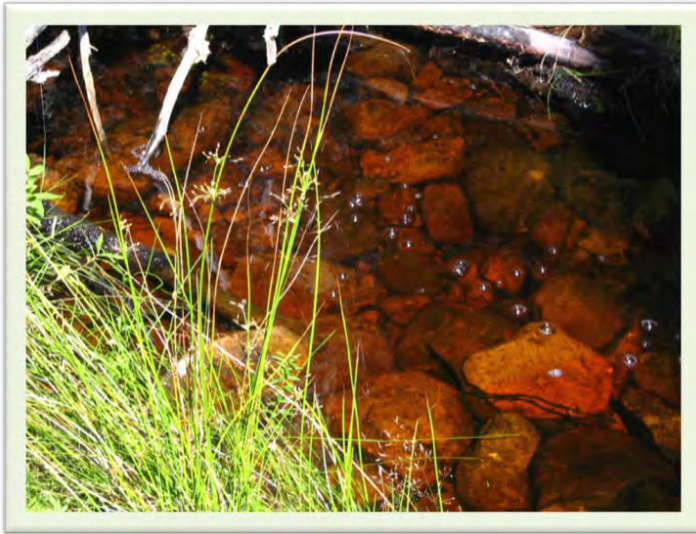
By Pam Ramsey – Charleston Daily Mail – March 31, 2015

Freedom Industries and West Virginia regulators have signed an agreement for cleaning up the site of a 2014 chemical spill in the Elk River that prompted a tap water ban for 300,000 people for days. The agreement announced Tuesday by the West Virginia Department of Environmental Protection will be done through the agency's Voluntary Remediation Program. Previous agreements required Freedom to remove all contaminated soil and groundwater from the site, which is about 4.8 acres. In bankruptcy filings, company officials have said the voluntary remediation program will be less expensive, lessening Freedom's burden for cleaning the site. For full story, [click here](#).

WI: Climate Change Effects on Chequamegon Bay Area

By Marie Zhuikov – Aquatic Sciences Chronicle – March 27, 2015

Randy Lehr wants to prepare Chequamegon Bay for the worst. “Chequamegon Bay is arguably the least climate-adapted spot in the country from an infrastructure viewpoint,” said Lehr, Bro Professor of Sustainable Regional Development at Northland College in Ashland, Wis. Precipitation estimates for the Bayfield Peninsula developed decades ago fail to take into account the unique local weather caused by geography and Lake Superior. For full story, [click here](#).



WETLAND SCIENCE

EPA, NASA, NOAA and USGS Creating Early Warning System to Detect Harmful Algal Blooms

Contact: Cathy Milbourn (News Media Only), Milbourn.cathy@epa.gov, 202-564-7849, 202-420-8648, 202-564-4355 – EPA – Release Date: April 7, 2015

EPA has announced that it is developing an early warning indicator system using historical and current satellite data to detect algal blooms. EPA researchers will develop a mobile app to inform water quality managers of changes in water quality using satellite data on cyanobacteria algal blooms from three

partnering agencies-- NASA, NOAA, and the U.S. Geological Survey. The multi-agency project will create a reliable, standard method for identifying cyanobacteria blooms in U.S. freshwater lakes and reservoirs using ocean color satellite data. Several satellite data sets will be evaluated against environmental data collected from these water bodies, which allows for more frequent observations over broader areas than can be achieved by taking traditional water samples. For full story, [click here](#).

With Roundup classified as 'probable' carcinogen, what's next?

By Tiffany Stecker – E & E Publishing – April 2, 2015

It's been a tough time for the world's most popular herbicide. Two weeks ago, the World Health Organization's cancer research arm designated glyphosate as a "probable" carcinogen. It was immediately labeled a clear danger by opponents of large-scale industrial agriculture, and concurrently brushed off by Monsanto Co. and technology-focused scientific organizations. For full story, [click here](#).

As Sea Stars Die, New Worries About Urchins

By Leslie Willoughby – National Geographic – April 1, 2015

Along California's central coast, an unusual underwater scene is unfolding. Where sea urchins previously hid in cracks and crevices, they now carpet the seafloor. Yet a couple hundred miles away, in southern California, urchins are losing their spines and dying. This emergence of urchins, as well as the mass mortalities to the south, are newly discovered phenomena that appear to be connected to a die-off of sea stars that scientists have called the largest marine disease outbreak ever recorded. For full article, [click here](#).

Oceans' heat-buffering ability may be weakening

By Cheryl Katz – Environmental News Network – March 30, 2015

For decades, the earth's oceans have soaked up more than nine-tenths of the atmosphere's excess heat trapped by greenhouse gas emissions. By stowing that extra energy in their depths, oceans have spared the planet from feeling the full effects of humanity's carbon overindulgence. But as those gases build in the air, an energy overload is rising below the waves. A raft of recent research finds that the ocean has been heating faster and deeper than scientists had previously thought. And there are new signs that the oceans might be starting to release some of that pent-up thermal to significant global temperature increases in the coming years. For full story, [click here](#).

Fracking: New aerial research to track pollutants above western fossil fuel development zones

By Bob Berwyn – Summit County Citizens Voice – March 28, 2015

A recent study of satellite data showing a hotspot of potent heat-trapping methane pollution over the Four Corners region makes it clear that we're digging an ever-deeper global warming hole by fracking every last corner of the country. As NOAA put it, "Vast regions west of the Mississippi River are under development for oil and gas extraction ... but while one focus is on what comes out of the ground, NOAA

and Cooperative Institute for Research in Environmental Sciences researchers and their colleagues are studying what escapes to the air—and how it is transformed in the atmosphere and affects air quality and climate. For full story, [click here](#).

Algae from clogged waterways could serve as biofuels and fertilizer

PHYS.org – March 25, 2015

Water-borne algal blooms from farm fertilizer runoff can destroy aquatic life and clog rivers and lakes, but scientists will report today that they are working on a way to clean up these environmental scourges and turn them into useful products. The algae could serve as a feedstock for biofuels, and the feedstock leftovers could be recycled back into farm soil nutrients. For full story, [click here](#).

The conversion of natural wetlands to agriculture produces a significant increase in the atmospheric radiative forcing

Reporting Climate Science – March 26, 2015

Natural wetlands usually emit methane and sequester carbon dioxide. Anthropogenic impacts however, in particular the conversion of wetlands into cropland, result in a significant increase in CO₂ emissions, which overcompensate potential decreases in methane emission, caused by the reduction of wetlands. A large international research team now calculated that the conversion of arctic and boreal wetlands into agricultural land would result in an additional cumulative radiative forcing of about 0,1 mJ per square meter for the next 100 years. The conversion of temperate wetlands into agricultural land would even result in a cumulative radiative forcing of 0,15 mJ per square meter. Converting forested wetlands into managed forests also contributes to increased warming, albeit much less than the conversion of non-forested wetlands. For full story, [click here](#).

Rockefeller Foundation Project Unveils Coastal Protection Proposal for Narragansett Bay

ecoRI News – March 17, 2015

Leading climate scientists, engineers, designers and scholars recently collaborated to create comprehensive resiliency design proposals for vulnerable coasts along the North Atlantic, such as Rhode Island's. Structures of Coastal Resilience (SCR), a Rockefeller Foundation-supported project dedicated to providing resilient design proposals for urban coastal environments, focuses on four vulnerable coasts: Narragansett Bay; Jamaica Bay in New York; Atlantic City in New Jersey; and Norfolk, Va. Each of the project locations feature ongoing projects by the Army Corps of Engineers, and each location is highly prone to flooding and socioeconomic vulnerability, according to project officials. The goal of SCR is provide actionable project recommendations for hurricane protection and climate adaptation. For full story, [click here](#).

Study sees new threat to East Antarctic ice

By Carol Rasmussen – NASA Global Climate Change – March 16 2015

Researchers at the University of Texas at Austin, NASA and other research organizations have discovered two seafloor troughs that could allow warm ocean water to reach the base of Totten Glacier, East Antarctica's largest and most rapidly thinning glacier. The discovery likely explains the glacier's extreme thinning and raises concern about its impact on sea level rise. For full story, [click here](#).



RESOURCES & PUBLICATIONS

Analysis of Hydraulic Fracturing Fluid Data from the FracFocus Chemical Disclosure Registry 1

EPA – March 2015

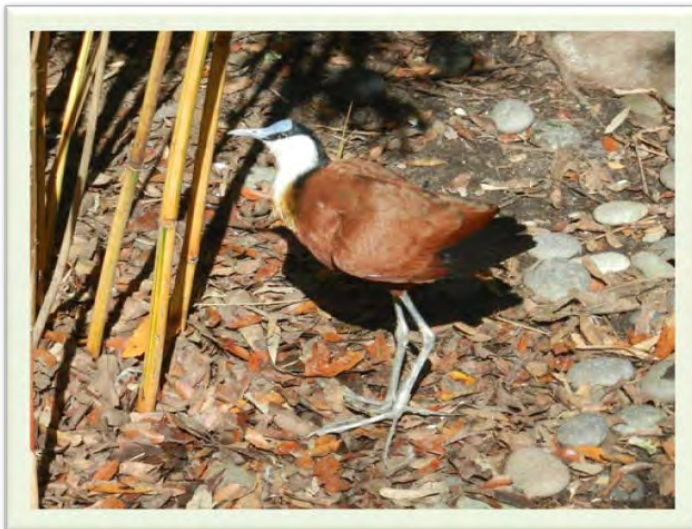
The Analysis of Hydraulic Fracturing Fluid Data from the FracFocus Chemical Disclosure Registry 1.0 summarizes chemical and water use data from more than 38,000 oil and gas production wells hydraulically fractured between January 1, 2011, and February 28, 2013, and looks at how chemical and water use vary in different

locations across the country. To download full report, [click here](#).

Adaptation Strategies Guide for Water Utilities Updated

EPA – February 2015

Updates recently made to the "Adaptation Strategies Guide for Water Utilities" introduce climate change and adaptation planning to water sector utilities by outlining climate challenges based on type and geographic region. The Guide provides suggested adaptation strategies for system impacts associated with climate change challenges such as drought, water quality degradation, ecosystem changes, and changes in service demand and use. New features of the 2015 edition include: information based on updated models data from the U.S. Global Change Research Program 2014 Report, sustainability briefs addressing green infrastructure, energy management, and water demand management, and updated water utility climate adaptation case studies. [Click here to download the guide as a PDF](#).



POTPOURRI

California drought tests history of endless growth

By Adam Nagourney, Jack Healy and Nelson D. Schwartz – The New York Times – April 4, 2015

For more than a century, California has been the state where people flocked for a better life — 164,000 square miles of mountains, farmland and coastline, shimmering with ambition and dreams, money and beauty. It was the cutting-edge symbol of possibility: Hollywood, Silicon Valley, aerospace, agriculture and vineyards. But now a punishing drought — and the unprecedented measures the

state announced last week to compel people to reduce water consumption — is forcing a reconsideration of whether the aspiration of untrammled growth that has for so long been this state's driving engine has run against the limits of nature. For full story, [click here](#).

What's in a name affects attitudes: 'rain tax' vs. 'stormwater fee'

By Timothy B. Wheeler – The Baltimore Sun – March 28, 2015

As the General Assembly debates repealing a hotly contested fee meant to pay for efforts to clean up the Chesapeake Bay, it turns out the name you give that fee can make it less controversial. Proponents call it the stormwater fee. Critics, including Republican Gov. Larry Hogan, call it the rain tax. For full story, [click here](#).

Road kill: Recommendations to protect biodiversity

By Michelle Kovacevic – Environmental News Network – March 20, 2015

Governments and donors must pay more attention to the environmental impact of road networks to limit their “devastating” effect on ecosystems, a study on global infrastructure expansion has warned. Road construction opens a “Pandora’s box” of negative impact, according to the authors of the paper, published this month in *Current Biology*. These include deforestation, animals hunted to extinction, land grabs by speculators betting on development, and wildfires. For full story, [click here](#).

Water giveaways during a drought invite conflict

By Jay Lund and Peter Moyle – California Water Blog – March 23, 2015

When labor is scarce, people move to better jobs with higher wages. When land is scarce, landowners are offered higher prices for its use. When drought makes water scarcer in California, those with senior water rights are offered more money to move their water to other users. But fish are asked to give up their water for free. California would do better if it cultivated a more civilized ethic where there is no free water during a drought. Perhaps we should treat environmental uses of water more as a matter of economics, to help the environment and the economy. For full blog post, [click here](#).

Periodic corrections to agricultural land values provide opportunity for conservation

By Larkin A. Powell – Journal of Soil and Water Conservation – March/April 2015

Private landowners manage over 75% of the land in the United States. More than 90% of each state's area in the Midwest and Great Plains is owned privately (Powell 2012). Thus, the decisions made on private lands may serve as major sources of change in farmed landscapes and ecosystems. For full article in PDF, [click here](#).

CALENDAR OF EVENTS

WEBINARS, MEETINGS, TRAINING, SPECIAL EVENTS

WEBINAR	
APRIL 2015	
April 21, 2015 3:00 p.m. ET	Association of State Wetland Managers Restoration webinar: Vernal Pool Restoration – How to Restore the Landscape presented by Mick Micacchion, Midwest Biodiversity Institute; Christina M. Schaefer, Schaefer Ecological Solutions; and Aram J.K. Calhoun, The University of Maine
April 28 and 30, 2015 2:00 p.m. EDT	Forester University presents Surface Water Master Class Series webinar: Hydrology 101, Part II
April 28, 2015 1:00 p.m. EDT	American Water Resources Association webinar: The Oregon Model: Case Studies in Strategic Watershed Council Partnerships and Watershed Restoration Planning
April 29, 2015 12:00-1:00 p.m. Mountain	The Rocky Mountain Research Station and the University of Montana Webinar: A GIS Approach to Assessing Population Vulnerability to Smoke in the Southeastern US

April 29, 2015 3:30 p.m. EDT	Northeast Climate Science Center Webinar: Changes in forest composition and structure under alternative climate scenarios in the Northeastern U.S.
April 30, 2015 10:30-11:30 p.m. ET	CILER-GLERL Great Lakes Seminar Series webinar: Do we have the tools and the smarts to quantify near shore conditions in Lake Michigan?
April 30, 2015 1:00-2:00 p.m. EDT	Ecosystem-Based Management Tools Network Webinar: Community-Based Sea Level Rise Projections with Ian Miller of Washington Sea Grant
April 30, 2015 1:00-2:30 p.m. ET	Workable Watersheds Webinar: Walkable Watersheds – Making the Connection
April 30, 2015 3:00 p.m.	Association of State Wetland Managers Members' Wetland Webinar: Findings from a 2014 Study of Massachusetts Wetland Replication Projects (Replication Measures, Success and an Interesting Finding About Vegetation)
MAY 2015	
May 5, 2015 1:00-2:00 p.m. EDT	Webinar: Water Utility Planning Strategies to Mitigate Impacts of Climate Change in Central Ohio
May 5, 2015 3:00 p.m. EDT	Association of State Wetland Managers will hold a NFFA Webinar: Square Peg, Round Hole –Maximizing Conservation in a Flood-Insurance Construct
May 6, 2015 12:00-1:00 p.m. Mountain	The Rocky Mountain Research Station and the University of Montana Webinar: Integrating Social Vulnerability into Planning and Decision-Making
May 19, 2015 3:00 p.m. ET	Association of State Wetland Managers Restoration webinar: Prairie Pothole Restoration
May 20, 2015 1:00-2:30 p.m. EDT	The Center for Watershed Protection webcast: Green Infrastructure & Green Jobs
May 20, 2015 3:00 p.m. ET	Association of State Wetland Managers Wetland Mapping Consortium (WMC) Webinar: Mapping Forested Wetland Inundation using LiDAR Intensity Data
May 21, 2015 1:00-2:00 p.m. EDT	Webinar: Precipitation Patterns, Supply Planning and Demand Curves: the Complexities of Assessing Water Supply Risks
JUNE 2015	
June 4, 2015 1:00-2:00 p.m. ET	NOAA's webinar: Water Hazards and Community Resilience
June 9, 2015 3:00 p.m. ET	Association of State Wetland Managers Restoration webinar: Riverine/Riparian Wetland Restoration
June 17, 2015 1:00–2:30 p.m. EDT	The Center for Watershed Protection webcast: Multi-Sector & Industrial Stormwater Permits

<u>JULY 2015</u>	
July 14, 2015 3:00 p.m. ET	Association of State Wetland Managers Restoration webinar: Peat Land Restoration
MEETINGS	
<u>APRIL 2015</u>	
April 20-24, 2015 Cincinnati, Ohio	EPA is a co-sponsor for this joint IWA International Conference: Water Efficiency and Performance Assessment of Water Services
April 22-23, 2015 Mimbres, New Mexico	Wetland Restoration & Training: Mimbres River Spring Restoration Workshop
April 23-30, 2015 Nairobi, Kenya	International Institute for Environment and Development: 9th annual International Conference on Community-Based Adaptation
April 26, 2015 Fernie, BC	BC Wildlife Federation Wetlands Education Program: Map our Marshes Workshop
April 26-30, 2015 Traverse City, Michigan	NatureServe network's annual conference: Biodiversity Without Boundaries 2015
April 27-29, 2015 Syracuse, New York	New York State Floodplain and Stormwater Managers Association: 15th Annual Meeting
April 28-29, 2015 Freeport, Maine	NEIWPC 26th Annual Nonpoint Source Pollution: The Watershed Approach: Addressing Today's Challenges with an Eye on the Future
April 30, 2015 Brunswick, Maine	Maine Association of Wetland Scientists (MAWS) After Dark Free Event: iMapInvasives Live Training with Nancy Olmstead, Invasive Plant Biologist with Maine Natural Areas Program . Suggested donation of \$5.
<u>MAY 2015</u>	
May 1-4, 2015 Santa Ana Pueblo, New Mexico	River Network's River Rally 2015
May 3-5, 2015 Chicago, Illinois	American Society of Agricultural and Biological Engineers (ASABE): Climate Change Symposium - Adaptation and Mitigation
May 5-8, 2015 Orlando, Florida	National Mitigation & Ecosystem Banking Conference: Training & Education, Moderated Exchanges, Networking
May 6-7, 2015 Castlegar, BC, Canada	Columbia Mountains Institute of Applied Ecology: Regulated Rivers: Environment, Ecology, and Management Conference
May 6-8, 2015 Asheville, NC	North Carolina State University Stream Restoration Program workshop: Natural Channel Design Principles
May 6-8, 2015 Sandusky, Ohio	The Tinker's Creek Watershed Partners and the Ohio Stormwater Association: 2015 Ohio Stormwater Conference
May 7-9, 2015 Gettysburg, Pennsylvania	The Pennsylvania Land Trust: 13th Annual Pennsylvania Land & Water Conservation Conference

May 11-14, 2015 Washington, DC	Blue Frontier Campaign: Blue Vision Summit
May 12-14, 2015 Raleigh, North Carolina	North Carolina State University Stream Restoration Program workshop: Coastal Plain Restoration Tour and Evaluation
May 12-14, 2015 St. Louis, Missouri	EcoAdapt: National Adaptation Forum
May 15-16, 2015 Santa Cruz, California	Elkhorn Slough Coastal Training Program: Geodatabase Design and Modeling Workshop
May 17-20, 2015 Fort Worth, TX	National Watershed Coalition: 14th National Watershed Conference: National Watershed Program Partner Summit
May 20-22, 2015 Fort Collins, Colorado	North Central Climate Science Center 2015 Open Science Conference: Integrating research and management of change from mountains to plains
May 22-24, 2015 Saskatoon, Canada	10th Annual Meeting: Canadian Society for Ecology and Evolution
May 25-29, 2015 Burlington, Vermont	International Association for Great Lakes Research (IAGLR): 58th Annual Conference on Great Lakes Research
May 30, 2015 New London, Ohio	Ohio Wetlands Association: Big Swamp Plant Identification Workshop
May 31-June 4, 2015 Providence, Rhode Island	2015 Society of Wetland Scientists Annual Meeting: Changing climate. Changing wetlands
May 31 – June 5, 2015 Atlanta, Georgia	Association of State Floodplain Managers Annual Conference: Mitigation on my Mind
JUNE 2015	
June 1-2, 2015 Toronto, Ontario	Green Roofs for Healthy Cities conference: Grey to Green
June 1-5, 2015 Buffalo, New York	University at Buffalo's Summer Workshop Series in Stream Restoration
June 3-5, 2015 Stillwater, Oklahoma	The 15th annual meeting of the American Ecological Engineering Society: Designing 21st Century Grasslands: Fire, Water, Conservation, & Carbon
June 7-10, 2015 Anaheim, California	American Water Works Association Annual Conference & Exposition: Uniting the World of Water
June 8-10, 2015 Bonn, Germany	ICLEI – Local Governments for Sustainability: Resilient Cities 2015
June 8-11, 2015 St. John's, Newfoundland and Labrador, Canada	The 36th Canadian Symposium on Remote Sensing (CSRS)
June 10-11, 2015 Morning View, Kentucky	Wetland Construction Workshop. Email mkdickerson@nkcd.org for more information.

June 13-18, 2015 Charleston, South Carolina	21st International Symposium on Society and Resource Management: Understanding and Adapting to Change
June 15-17, 2015 New Orleans, Louisiana	American Water Resources Association (AWRA) Specialty Conference: Climate Change Adaptation . Abstracts due by February 13, 2015
June 15-19, 2015 Pittsburgh, Pennsylvania	Applied Geology and Environmental Science: The Urban Stream Stabilization & Rehabilitation Workshop
June 17-19, 2015 Sarnia, Ontario	Great Lakes and St. Lawrence Cities Initiative Annual Meeting and Conference
June 21-26, 2015 Queenstown, New Zealand	The Department of Mathematics and Statistics, University of Otago meeting: Statistics in Ecology and Environmental Monitoring (SEEM) 2015
June 22-24 2015 Groningen, The Netherlands	University of Massachusetts-Amherst: Fish Passage 2015
June 23-24, 2015 Barnstable, Massachusetts	5 th Annual Hands-on Wetland Restoration Workshop for Professionals. Email jives@massaudubon.org for more information.
JULY 2015	
July 5-10, 2015 Portland, Oregon	9th Annual IALE World Congress: Crossing Scales, Crossing Borders; Global Approaches to Complex Challenges . Call for presentations deadline: March 1, 2015
July 7-10, 2015 Paris, France	Our Common Future Under Climate Change International Scientific Conference
July 8-10, 2015 Raleigh, North Carolina	North Carolina State University Stream Restoration Program workshop: Hydraulic Modeling for Stream Restoration
July 21-23, 2015 Breckenridge, Colorado	Rocky Mountain Stream Restoration Conference
July 26-29, 2015 Greensboro, North Carolina	70th Annual Soil and Water Conservation Society (SWCS) Conference
July 27-31, 2015 Boulder, Colorado	National Center for Atmospheric Research Second Annual Graduate Workshop: Environmental Data Analytics
July 27-August 2, 2015 Nagoya Japan	XIX INQUA Congress Quaternary Perspectives on Climate Change, Natural Hazards and Civilization
AUGUST 2015	
August 2-5, 2015 Windsor, Ontario, Canada	21st International Conference on Environmental Indicators
August 2-6, 2015 Austin, Texas	StormCon, the North American Surface Water Quality Conference and Expo
August 5-7, 2015 Reston, Virginia	American Society of Civil Engineers Watershed Management Symposium
August 9-14, 2015 Baltimore, Maryland	The Ecological Society of America: Ecological Science at the Frontier: Celebrating ESA's Centennial

August 23-27, 2015 Manchester, England	Society of Ecological Restoration 6th World Conference on Ecological Restoration: Towards Resilient Ecosystems: Restoring the Urban, the Rural and the Wild
August 23-28, 2015 La Crosse, Wisconsin	4th Biennial Symposium of the International Society for River Science
August 23-28, 2015 Stockholm, Sweden	Stockholm International Water Institute: 2015 World Water Week
August 26-28, 2015 San Francisco, California	U.S. Water Alliance: One Water Leadership Summit
SEPTEMBER 2015	
September 8-11, 2015 Rancho Mirage, California	2015 Floodplain Management Annual Conference in conjunction with ASFPM Arid Regions Conference. Submit an abstract by May 22, 2015.
September 13-18, 2015 York, UK	WETPOL 2015 - 6th International Symposium: Wetland Pollutant Dynamics and Control Annual Conference
September 16-18, 2015 Washington, DC	The Transportation Research Board: International Conference on Transportation System Resilience to Climate Change and Extreme Weather Events
September 23-25, 2015 Baltimore, Maryland	Resource Institute, Inc.: Mid-Atlantic Stream Restoration Conference
September 25-26, 2015 Lake Ariel, Pennsylvania	Lacawac Ecology Conference (LEC) annual fall conference of Lacawac Sanctuary and Field Station
September 26-30, 2015 Chicago, Illinois	Water Environment Federation Technical Exhibition and Conference
September 29-October 1, 2015 Chicago, Illinois	Healing Our Waters-Great Lakes Coalition: 11th Annual Great Lakes Restoration Conference
OCTOBER 2015	
October 7-9, 2015 New York, New York	6th annual Student Conference on Conservation Science
October 7-11, 2015 University of Oklahoma Norman, Oklahoma	Society of Environmental Journalists: Weather, Water, Energy: News in Every Neighborhood
October 14-15, 2015 Villanova, Pennsylvania	Villanova Urban Stormwater Partnership: 9th Stormwater Management Symposium
NOVEMBER 2015	
November 3-5, 2015 Little Rock, Arkansas	Natural Areas Association: 2015 Natural Areas Conference Abstracts due by April 27, 2015.
November 8-12, 2015 Portland, Oregon	Coastal Estuarine Research Federation Conference: Grand Challenges in Coastal & Estuarine Science: Securing Our Future
November 16-18, 2015 Greater Portland, Maine	Think Blue Maine Partner Maine Stormwater Conference . Abstract deadline is Friday, March 27, 2015.

November 16-19, 2015 Denver, Colorado	AWRA's 50th Annual Water Resources Conference Special session proposals due by May 15, 2015.
TRAINING	
APRIL 2015	
April 20-22, 2015 San Diego, California	Vernal Pool CRAM Training
April 21 - 24, 2015 Raleigh, North Carolina	Stream Identification Class
April 23, 2015 Sacramento, California	UC Davis Extension Course: CEQA and Climate Change: An In-Depth Update
April 23, 2015 Denver, Colorado	Urban Watersheds Research Institute Course: Urban Channel Design and Rehabilitation
April 27-30, 2015 Columbus, Ohio	Midwest Biodiversity Institute: Wetland Delineation Course
April 27-May 1, 2015 St. Michaels, Maryland	Environmental Concern: a Basic Wetland Delineation Professional Course
April 28-May 1, 2015 Dallas, Texas	Wetland Training Institute Course: Federal Wetland / Waters Regulatory Policy . This course will also be held on November 16-19, 2015 in San Diego, California.
April 30-May 1, 2015 Orange County, California	Wetland Training Institute, Inc. Course: Plant Identification for Coastal Southern California
MAY 2015	
May 4-7, 2015 Anchorage, Alaska	Richard Chinn Environmental Training, Inc. Course: ACOE Wetland Delineation/Regional Supplement/Waters of the United States
May 4-July 24, 2015	The Swamp School: Online Certified Wetland Botanist Course
May 5-6, 2015 Columbus, Ohio	Midwest Biodiversity Institute: Habitat Assessment Using the QHEI . This course will also be held on June 1-2, 2015
May 6-7, 2015 Charleston, South Carolina	Duncan & Duncan Wetland & Endangered Species Training Course: Wetland Delineation Regional Supplement (Atlantic Gulf Coastal Plain)
May 7-8, 2015 Columbus, Ohio	Midwest Biodiversity Institute: Primary Headwater Habitat (PHWH)
May 7-8, 2015 Tiburon, California	The San Francisco State University Course: Wetlands Hydrology
May 11-15, 2015 Poolesville, Maryland	The Wetland Training Institute, Inc. Course: Basic Wetland Delineation
May 11-July 17, 2015 University of Louisville-Speed School of Engineering	Wetland Design Online Course. For more information, contact: Ify Whitfill ihwhit02@louisville.edu ; go here or go directly here .

May 16-17, 2015	The Swamp School Course: Wetland Delineation Training Online and at the University of North Carolina Wilmington
May 18-19, 2015 State College, Pennsylvania	The Wetlands Training Institute, Inc. Course: Advanced Hydric Soils
May 18-22, 2015 Richmond, Kentucky	Wetland Design and Restoration Techniques Field Course: Eastern Kentucky University. Undergraduate and Graduate Level, 2-Credits. Contact: stephen.richter@eku.edu or go here for more information.
May 18-22, 2015 Rolla, Missouri	The Institute of Botanical Training, LLC Course: Ozarks Flora
May 18-22, 2015 Portage, Wisconsin	The Wetland Training Institute, Inc. Course: Basic Wetland Delineation
May 18-August 14, 2015	The Swamp School Online Certified Wetland Hydrologist Course
May 20-21, 2015 Columbus, Ohio	Midwest Biodiversity Institute: Amphibian Index of Biotic Integrity (AmphIBI)
May 21-22, 2015 Denver, Colorado	Urban Watersheds Research Institute Course: Stormwater Detention System Design - 2015
May 21-22, 2015 Charleston, South Carolina	Duncan & Duncan Wetland & Endangered Species Training course: Hydrophytic Vegetation (Coastal Plain) . This course will also be held on August 6-7, 2015.
May 26-29, 2015 Basking Ridge, New Jersey	Rutgers Office of Continuing Education Course: Methodology for Delineating Wetlands . Instructors: Ralph Tiner and Mallory N. Gilbert. Register by May 12, 2015 and save.
May 27, 2015 Basking Ridge, New Jersey	Rutgers Office of Continuing Professional Education Course: Introduction to Wetland Identification
May 27-28, 2015 Columbus, Ohio	Midwest Biodiversity Institute: Ohio Rapid Assessment Method (ORAM)
JUNE 2015	
June 1-2, 2015 Banner Elk, North Carolina	North Carolina State University Stream Restoration Program Course: Assessment and Identification of Riparian Vegetation
June 1-2, 2015 Columbus, Ohio	Midwest Biodiversity Institute: Habitat Assessment Using the QHEI , This course will also be held on May 5-6, 2015 in Columbus, Ohio.
June 1-3, 2015 St. Louis, Missouri	Institute of Botanical Training, LLC Course: Grasses, Sedges and Rushes
June 1-5, 2015 Columbus, Ohio	Midwest Biodiversity Institute: Level 3 Bioassessment: Fish
June 1-12, 2015 East Lansing, Michigan	Michigan State University Kellogg Biological Station course: Biomonitoring of Streams & Rivers
June 2-5, 2015 Raleigh, North Carolina	North Carolina Division of Water Resources (DWR) and NC State University (NC State University) Course: Surface Water Identification Training and Certification

June 2-July 2, 2015 Samburg, Tennessee	The University of Tennessee at Martin, Reelfoot Lake Environmental Field Station, 2015 Maymester and Summer Course on Aquatic and Wetland Plants (Tue., Thur., alternate Frid., Full day). Aquatic and Prerequisites: BIOL 130 and 140 or instructor's approval. Instructor: Dr. Ron Jones (Eastern Kentucky University), e-mail: Ron.Jones@EKU.EDU , phone: (859) 893-4529.
June 7-13, 2015 Steuben, Maine	Eagle Hill Institute Natural History Science Seminar: Bogs and Other Maine Peatlands
June 10, 2015 Sacramento, California	U.C. Davis Course: Clean Water Act Section 404: Nationwide and Other Specialized Permits
June 15-16, 2015 Bordentown, New Jersey	Rutgers University Course: Wetland Construction: Principles and Techniques
June 16-18, 2015 Columbus, Ohio	Midwest Biodiversity Institute Course: Vegetation Index of Biotic Integrity
June 15-18, 2015 Hastings, Michigan	Institute of Botanical Training: Wetland Flora Workshop . Other dates: June 29-July 2, 2015 in Des Moines, Iowa and July 13-16, 2015 in Indianapolis, Indiana
June 18-19, 2015 Williamsport, Pennsylvania	The Wetland Training Institute, Inc.: Wetland Delineation Field Practicum Refresher Course . If you are looking to satisfy those requirements, you need to check out WTI's live Basic Wetland Delineation or Basic Wetland Delineation with Field Practicum eSession courses. Click here for other dates.
June 22-25, 2015 State College, Pennsylvania	Wetland Training Institute, Inc. Course: Planning Hydrology, Vegetation, and Soils for Constructed Wetlands
June 23-24, 2015 Atlanta Georgia	Duncan & Duncan Wetland & Endangered Species Training Course: Interagency Consultation for Endangered Species . This course will also be held on November 2-3, 2015 in Atlanta, Georgia.
June 23-25, 2015 Columbus, Ohio	Midwest Biodiversity Institute: Identification of Common Wetland Plants
June 25-26, 2015 Denver, Colorado	Urban Watershed Research Institute Course: Hydrology Using HEC HMS
June 28-July 4, 2015 Steuben, Maine	Eagle Hill Course: Sedges and Rushes Identification and Ecology
June 29-July 2, 2015 Des Moines, Iowa	Institute of Botanical Training, LLC Course: Wetland Flora . This workshop will also be held on July 13-16, 2015 in Indianapolis, Indiana.
JULY 2015	
July 6-August 14, 2015 SUNY-ESF	Wetland Restoration Techniques online course at SUNY-ESF. Undergraduate and Graduate level, 3-Credits. For more information, go here or go directly here .
July 13, 2015 Gainesville, Virginia	Environmental Concern Course: WOW! The Wonders of Wetlands . This course will also be held on August 3, August 4, and December 9, 2015.

July 13-16, 2015 Indianapolis, Indiana	Institute of Botanical Training, LLC Course: Wetland Flora . This workshop will also be held on June 29-July 2, 2015 in Des Moines, Iowa.
July 14-15, 2015 LaGrange, Ohio	Midwest Biodiversity Institute: Wetland Restoration
July 15, 2015 Gainesville, Virginia	Environmental Concern Course: Wetland Plant ID for Educators: Know 'em & Grow 'em . Please register by June 22, 2015. This course will also be held on August 7, 2015.
July 16-17, 2015 Portage, Wisconsin	The Wetlands Training Institute, Inc. Course: Advanced Hydric Soils . For other dates and locations, click here .
July 19-25, 2015 Steuben, Maine	Eagle Hill Institute Course: Wetland Identification, Delineation, and Ecology
July 24-30, 2015 Ashland, Wisconsin	3 Sigma Institute Course: Lake Ecosystem Ecology: Biological and Hydrologic Sustainability of Lake Ecosystem
July 28 & 29, 2015 Tully, New York	Wetland Restoration Techniques Practicum at SUNY-ESF. Undergraduate and Graduate Level, 1-Credit. For more information, contact banewman@esf.edu ; go here or go directly here .
July 31, 2015-August 6, 2015 Cable, Wisconsin	3 Sigma Institute in affiliation with Northland College and the USFS is offering a course on Assessment of Wetland Food Web Support – Patterns in Primary and Secondary Production
AUGUST 2015	
August 3-12, 2015 Ashland, Wisconsin	3 Sigma Institute Course: Introduction to Environmental Modeling: Linking Social and Natural Sciences
August 6, 2015 St. Michaels, Maryland	Environmental Concern Course: POW! The Planning of Wetlands . This course will also be held on December 11, 2015.
August 9-15, 2015 Steuben, Maine	Eagle Hill Institute Natural History Science Seminar: Lakes and Rivers Understanding Their Ecology and Water Quality
August 10-14, 2015 Front Royal, Virginia	The Smithsonian-Mason School of Conservation, a partnership between George Mason University and the Smithsonian Conservation Biology Institute (SCBI) course: Conservation for Development Professionals: Strategies for implementing biodiversity action plans for the private sector
August 17-20, 2015 St. Michaels, Maryland	Environmental Concern Professional Course: Grasses, Sedges and Rushes
August 18-21, 2015 Hays, Kansas	The Wetlands Training Institute, Inc. Course: Plant Identification
August 24-25, 2015 Arlington, Washington.	The Wetlands Training Institute, Inc. Course: Advanced Hydric Soils
August 27-28, 2015 Denver, Colorado	Urban Watershed Research Institute Course: FIRM Map Revisions - Technical & Administrative Aspects - 2015
SEPTEMBER 2015	
September 11-18, 2015 Logan Lake, British Columbia	British Columbia Institute of Technology Wetland Restoration Course. Email Doug_Ransome@bcit.ca for more information.

September 14-19, 2015 Whitefish, Montana	Wetland Training Institute Course: Wetland Delineation with Emphasis on Soils and Hydrology
September 21-25, 2015 St. Michaels, Maryland	Environmental Concern Course: Basic Wetland Delineation Professional Course
September 23-25, 2015 Hays, Kansas	The Wetland Training Institute, Inc. Course: Woody Plants (Trees, Shrubs, and Vines) Identification
September 28-29, 2015 Bordentown, New Jersey	Rutgers University course: Wetland Construction: Planning and Functional Design
September 28-October 2, 2015 Portage, Wisconsin	The Wetland Training Institute, Inc. Course: Basic Wetland Delineation
OCTOBER	
October 5-9, 2015 Atlanta, Georgia	Duncan & Duncan Wetland & Endangered Species Training will hold a course on Basic Wetland Delineation . This course will also be held on June 8-12, 2015 in Charleston, South Carolina.
October 17, 2015 St. Michaels, Maryland	Environmental Concern Course: Project WET 2.0 . Register by November 18, 2015.
October 23, 2015 Denver, Colorado	Urban Watersheds Research Institute Course: Overview of WQ Regulations and Compliance - 2015
NOVEMBER	
November 12-13, 2015 Atlanta, Georgia	Duncan & Duncan Wetland & Endangered Species Training Course: Advanced Hydric Soils and Hydrology (Piedmont)
DECEMBER	
December 3-4, 2015 Atlanta, Georgia	Duncan & Duncan Course: Problem and Atypical Wetland Delineation (Piedmont)
December 3-4, 2015 Denver, Colorado	Urban Watersheds Research Institute Course: Floodplain Hydraulics Using HEC RAS - 2015
December 7-11, 2015 Front Royal, Virginia	The Smithsonian-Mason School of Conservation, a partnership between George Mason University and the Smithsonian Conservation Biology Institute (SCBI) course: Statistical Downscaling of Global Climate Models in SDSM 5.2
December 8, 2015 Atlanta, Georgia	Duncan & Duncan Wetland & Endangered Species Training course: Endangered Species Act Overview . This course will also be held on July 21, 2015 in Atlanta, Georgia.
SPCIAL EVENTS	
April 24-25, 2015 Great Bend, Kansas	The Kansas Wetlands Education Center , along with Kansas Department of Wildlife Parks & Tourism , The Nature Conservancy , and the Great Bend Convention and Visitors Bureau will host the Wings N Wetlands Birding Festival
May 21-24, 2015 Baileys Harbor, Wisconsin	13 th Annual Door County Festival of Nature

For more wetland events, meetings, conferences, and courses nationwide, visit the [ASWM calendar](#).

JOBS



INDEX

EDITOR'S NOTE

EDITOR'S CHOICE

- EPA sends controversial water pollution rule to White House
- USDA to provide \$332 million to protect and restore agricultural working lands, grasslands and wetlands
- Small wetlands critical to overall ecosystem functions
- Rise in government insurance rates to mirror rising waters, flood debt
- Growth in coastal areas may expose 1B people to sea-level rise by 2060
- ASWM's Wetland Restoration Webinar: Vernal Pool Restoration – How to Restore the Landscape
- ASWM's Members' Webinar: Assessment of Wetland Mitigation Success: Findings from a New Study on Massachusetts Wetland Replication Projects
- NFFA Webinar: Square Peg, Round Hole – Maximizing Conservation in a Flood-Insurance Construct
- Wetland Mapping Consortium (WMC): Mapping Forested Wetland Inundation using LiDAR Intensity Data

NATIONAL NEWS

- NRCS Targets More Watersheds to Improve Water Quality
- EPA likely won't have to adopt more stringent restrictions on nutrients in Mississippi River, appeals court rules
- USDA funding to help clean waterways in Mississippi River basin
- President Obama approves Arctic drilling
- It's Almost Impossible To Find Data On Oil And Gas Spills In Most States
- EPA will require weed-resistance restrictions on glyphosate herbicide
- Environmental group seeks greater protection for USDA scientists
- EPA Awards Great Lakes Restoration Initiative Grants to Reduce Runoff that Contributes to Algal Blooms
- Environmentalists play 'Whac-A-Mole' to stall crude-by-rail projects
- EPA official: Water rules needed but 'weren't crystal clear'

STATES NEWS

- CA: Brown orders California's first mandatory water restrictions: 'It's a different world'
- CA: In California, Beavers are essential to recovering wild salmon
- CO: Environmental groups sue over Wolf Creek objections
- FL: The Snake That's Eating Florida
- FL: Rising seas bring heavy burden to Florida coastal economy. Can it adapt?
- LA: Dispersant used in BP spill might cause damage to human lungs, fish, crab gills, new study says
- LA: Deepwater oil spill: BP steps up PR effort to insist all is well in the Gulf
- LA: High Mississippi, Atchafalaya rivers pouring sediment into Louisiana wetlands, lakes, Gulf
- MD: Phosphorus regs published, go to public comment
- MI: The way we use land in the Great Lakes region is changing
- MI: Volunteers in forefront of monitoring Great Lakes streams
- MN: Minnesota's already at-risk wetlands will be in greater danger if SF 1515 passes
- MN: Demand high for wetlands program
- MO: NRCS Funding Available to Protect Wetlands and Other Agricultural Land
- NJ: Chris Christie's deal with ExxonMobil: first look
- OH: Ohio EPA tries to block Cleveland harbor sediment from being dumped in Lake Erie
- OH: Bill to cut Lake Erie toxic algae goes to Ohio governor
- PA: Fracking Study on Water Contamination Under Ethics Review
- PA: EPA warns Pennsylvania it is coming up short in making sure farmers have anti-runoff plans
- RI: Compromise Reached for Building Near R.I. Wetlands
- TX: Man-made wetlands a blessing for migratory birds
- VT: Vermont House approves water cleanup bill
- VA: Norfolk coastline gets \$18 million boost
- VA: The Significance of the Nexus for Wetlands Jurisdiction: Recent Fourth Circuit Decision Supports the Corps' Determination of Jurisdiction
- WA: Draft plan to clean up Deschutes watershed out for review
- WV: Freedom Industries, state sign spill site cleanup agreement
- WI: Climate Change Effects on Chequamegon Bay Area

WETLAND SCIENCE

- EPA, NASA, NOAA and USGS Creating Early Warning System to Detect Harmful Algal Blooms
- With Roundup classified as 'probable' carcinogen, what's next?
- As Sea Stars Die, New Worries About Urchins
- Volunteers in forefront of monitoring Great Lakes streams
- Oceans' heat-buffering ability may be weakening
- Fracking: New aerial research to track pollutants above western fossil fuel development zones
- Algae from clogged waterways could serve as biofuels and fertilizer
- The conversion of natural wetlands to agriculture produces a significant increase in the atmospheric radiative forcing
- Rockefeller Foundation Project Unveils Coastal Protection Proposal for Narragansett Bay
- Study sees new threat to East Antarctic ice

RESOURCES & PUBLICATIONS

- Analysis of Hydraulic Fracturing Fluid Data from the FracFocus Chemical Disclosure Registry 1
- Adaptation Strategies Guide for Water Utilities Updated

POTPOURRI

- California drought tests history of endless growth
- What's in a name affects attitudes: 'rain tax' vs. 'stormwater fee'
- Road kill: Recommendations to protect biodiversity
- Water giveaways during a drought invite conflict
- Periodic corrections to agricultural land values provide opportunity for conservation

WEBINARS, MEETINGS, TRAINING, SPECIAL EVENTS

Webinars

- ASWM Webinar: Vernal Pool Restoration – How to Restore the Landscape
- Forester University webinar: Surface Water Master Class Series: Hydrology 101, Part II
- The Oregon Model: Case Studies in Strategic Watershed Council Partnerships and Watershed Restoration Planning
- A GIS Approach to Assessing Population Vulnerability to Smoke in the Southeastern US
- Changes in forest composition and structure under alternative climate scenarios in the Northeastern U.S.
- CILER-GLERL Great Lakes Seminar Series webinar: Do we have the tools and the smarts to quantify near shore conditions in Lake Michigan?
- Community-Based Sea Level Rise Projections with Ian Miller of Washington Sea Grant
- Walkable Watersheds – Making the Connection
- Findings from a 2014 Study of Massachusetts Wetland Replication Projects
- Webinar: Water Utility Planning Strategies to Mitigate Impacts of Climate Change in Central Ohio
- ASWM NFFA Webinar: Square Peg, Round Hole – Maximizing Conservation in a Flood Construct
- Integrating Social Vulnerability into Planning and Decision-Making
- ASWM Restoration webinar: Prairie Pothole Restoration
- The Center for Watershed Protection webcast: Green Infrastructure & Green Jobs
- ASWM Mapping Consortium (WMC) Webinar: Mapping Forested Wetland Inundation using LiDAR Intensity Data
- Precipitation Patterns, Supply Planning and Demand Curves: the Complexities of Assessing Water Supply Risks
- NOAA's webinar: Water Hazards and Community Resilience
- Association of State Wetland Managers Restoration webinar: Riverine/Riparian Wetland Restoration
- The Center for Watershed Protection webcast: Multi-Sector & Industrial Stormwater Permits
- ASWM Restoration webinar: Peat Land Restoration

Meetings

- EPA is a co-sponsor for this joint IWA International Conference: Water Efficiency and Performance Assessment of Water Services
- Wetland Restoration & Training: Mimbres River Spring Restoration Workshop
- 9th Annual International Conference on Community-Based Adaptation
- BC Wildlife Federation Wetlands Education Program: Map our Marshes Workshop
- Biodiversity Without Boundaries 2015
- New York State Floodplain and Stormwater Managers Association: 15th Annual Meeting
- The Watershed Approach: Addressing Today's Challenges with an Eye on the Future
- iMapInvasives Live Training with Nancy Olmstead, Invasive Plant Biologist with Maine Natural Areas Program
- River Network's River Rally 2015
- Climate Change Symposium - Adaptation and Mitigation
- National Mitigation & Ecosystem Banking Conference: Training & Education, Moderated Exchanges, Networking
- Regulated Rivers: Environment, Ecology, and Management Conference
- Natural Channel Design Principles
- 2015 Ohio Stormwater Conference
- 13th Annual Pennsylvania Land & Water Conservation Conference
- Blue Frontier Campaign: Blue Vision Summit
- Coastal Plain Restoration Tour and Evaluation
- National Adaptation Forum
- Geodatabase Design and Modeling Workshop
- National Watershed Program Partner Summit
- Integrating research and management of change from mountains to plains
- 10th Annual Meeting: Canadian Society for Ecology and Evolution
- 58th Annual Conference on Great Lakes Research
- Big Swamp Plant Identification Workshop
- Changing climate. Changing wetlands
- Association of State Floodplain Managers Annual Conference: Mitigation on my Mind

- Green Roofs for Healthy Cities conference: Grey to Green
- University at Buffalo's Summer Workshop Series in Stream Restoration
- Designing 21st Century Grasslands: Fire, Water, Conservation, & Carbon
- American Water Works Association Annual Conference & Exposition: Uniting the World of Water
- ICLEI – Local Governments for Sustainability: Resilient Cities 2015
- The 36th Canadian Symposium on Remote Sensing
- Wetland Construction Workshop
- 21st International Symposium on Society and Resource Management: Understanding and Adapting to Change
- American Water Resources Association (AWRA) Specialty Conference: Climate Change Adaptation
- Applied Geology and Environmental Science: The Urban Stream Stabilization & Rehabilitation Workshop
- Great Lakes and St. Lawrence Cities Initiative Annual Meeting and Conference
- Statistics in Ecology and Environmental Monitoring
- Fish Passage 2015
- 5th Annual Hands-on Wetland Restoration Workshop for Professionals
- Crossing Scales, Crossing Borders; Global Approaches to Complex Challenges
- Our Common Future Under Climate Change International Scientific Conference
- Hydraulic Modeling for Stream Restoration
- Rocky Mountain Stream Restoration Conference
- 70th Annual Soil and Water Conservation Society (SWCS) Conference
- National Center for Atmospheric Research Second Annual Graduate Workshop: Environmental Data Analytics
- Quaternary Perspectives on Climate Change, Natural Hazards and Civilization
- 21st International Conference on Environmental Indicators
- StormCon, the North American Surface Water Quality Conference and Expo
- American Society of Civil Engineers Watershed Management Symposium
- Ecological Science at the Frontier: Celebrating ESA's Centennial
- Towards Resilient Ecosystems: Restoring the Urban, the Rural and the Wild
- 4th Biennial Symposium of the International Society for River Science
- 2015 World Water Week
- One Water Leadership Summit
- 2015 Floodplain Management Annual Conference
- WETPOL 2015 - 6th International Symposium: Wetland Pollutant Dynamics and Control Annual Conference
- International Conference on Transportation System Resilience to Climate Change and Extreme Weather Events
- Mid-Atlantic Stream Restoration Conference
- Lacawac Ecology Conference
- Water Environment Federation Technical Exhibition and Conference
- 11th Annual Great Lakes Restoration Conference
- 6th annual Student Conference on Conservation Science
- Weather, Water, Energy: News in Every Neighborhood
- 9th Stormwater Management Symposium
- 2015 Natural Areas Conference
- Grand Challenges in Coastal & Estuarine Science; Securing Our Future
- Think Blue Maine Partner Maine Stormwater Conference
- AWRA's 50th Annual Water Resources Conference

Training

- Vernal Pool CRAM Training
- Stream Identification Class
- CEQA and Climate Change: An In-Depth Update
- Urban Channel Design and Rehabilitation
- Midwest Biodiversity Institute: Wetland Delineation Course
- Basic Wetland Delineation Professional Course
- Federal Wetland / Waters Regulatory Policy
- Plant Identification for Coastal Southern California
- ACOE Wetland Delineation/Regional Supplement/Waters of the United States
- The Swamp School: Online Certified Wetland Botanist Course
- Habitat Assessment Using the QHEI

- Wetland Delineation Regional Supplement (Atlantic Gulf Coastal Plain)
- Primary Headwater Habitat (PHWH)
- San Francisco State University Course: Wetlands Hydrology
- Basic Wetland Delineation
- Wetland Design Online Course
- Wetland Delineation Training Online
- Advanced Hydric Soils
- Wetland Design and Restoration Techniques Field Course at Eastern Kentucky University
- The Institute of Botanical Training, LLC Course: Ozarks Flora
- The Wetland Training Institute, Inc. Course: Basic Wetland Delineation
- Online Certified Wetland Hydrologist Course
- Amphibian Index of Biotic Integrity (AmphIBI)
- Stormwater Detention System Design - 2015
- Duncan & Duncan Wetland & Endangered Species Training Course: Hydrophytic Vegetation (Coastal Plain)
- Methodology for Delineating Wetlands
- Introduction to Wetland Identification
- Ohio Rapid Assessment Method (ORAM)
- Assessment and Identification of Riparian Vegetation
- Midwest Biodiversity Institute: Habitat Assessment Using the QHEI
- Grasses, Sedges and Rushes
- Midwest Biodiversity Institute: Level 3 Bioassessment: Fish
- Biomonitoring of Streams & Rivers
- Surface Water Identification Training and Certification
- Aquatic and Wetland Plants
- Eagle Hill Institute Natural History Science Seminar: Bogs and Other Maine Peatlands
- Clean Water Act Section 404: Nationwide and Other Specialized Permits
- Wetland Construction: Principles and Techniques
- Wetland Flora Workshop
- Midwest Biodiversity Institute Course: Vegetation Index of Biotic Integrity
- Wetland Delineation Field Practicum Refresher Course
- Planning Hydrology, Vegetation, and Soils for Constructed Wetlands
- Interagency Consultation for Endangered Species
- Identification of Common Wetland Plants
- Hydrology Using HEC HMS
- Sedges and Rushes Identification and Ecology
- Institute of Botanical Training, LLC Course: Wetland Flora
- Wetland Restoration Techniques online Course at SUNY-ESF
- WOW! The Wonders of Wetlands
- Institute of Botanical Training, LLC Course: Wetland Flora
- Midwest Biodiversity Institute: Wetland Restoration
- Wetland Plant ID for Educators: Know 'em & Grow 'em
- Advanced Hydric Soils
- Wetland Identification, Delineation, and Ecology
- Biological and Hydrologic Sustainability of Lake Ecosystem
- Wetland Restoration Techniques Practicum at SUNY-ESF
- Assessment of Wetland Food Web Support – Patterns in Primary and Secondary Production
- Introduction to Environmental Modeling: Linking Social and Natural Sciences
- POW! The Planning of Wetlands
- Lakes and Rivers Understanding Their Ecology and Water Quality
- Conservation for Development Professionals: Strategies for implementing biodiversity action plans for the private sector
- Environmental Concern Professional Course: Grasses, Sedges and Rushes
- The Wetlands Training Institute, Inc. Course: Plant Identification
- The Wetlands Training Institute, Inc. Course: Advanced Hydric Soils
- FIRM Map Revisions - Technical & Administrative Aspects - 2015
- British Columbia Institute of Technology Wetland Restoration Course
- Wetland Delineation with Emphasis on Soils and Hydrology
- Basic Wetland Delineation Professional Course
- Woody Plants (Trees, Shrubs, and Vines) Identification
- Planning and Functional Design
- The Wetland Training Institute, Inc. Course: Basic Wetland Delineation
- Duncan & Duncan Wetland & Endangered Species Training Course: Basic Wetland Delineation

- Environmental Concern Course: Project WET 2.0
- Overview of WQ Regulations and Compliance - 2015
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SPECIAL EVENTS

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- 13th Annual Door County Festival of Nature



The Association of State Wetland Managers' *Wetland Breaking News* is a monthly e-newsletter. *Wetland Breaking News* is an edited compilation of wetland-related stories and announcements submitted by readers and gleaned from listservs, press releases and news sources from throughout the United States. WBN chronicles the

legislative, national and state news relevant to wetland science and policy, wetland regulations and legal analysis of Supreme court cases from the past month; it also links to new publications and resources available to wetland professionals as well as events and training opportunities for those working in water resources and related fields. *Wetland Breaking News* has been published for over ten years and ASWM has been a think-tank and source for wetland science and policy news and discussion for over 30 years.

The items presented in *Wetland Breaking News* do not necessarily reflect the views of the editor or of the Association of State Wetland Managers. Send your news items, comments, corrections, or suggestions to news@aswm.org.

"WETLAND BREAKING NEWS"
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All photos by Jeanne Christie, ASWM

