

Welcome to the Biweekly Restoration Information Update Page. This web site

- Provides current information on wetland and river corridor restoration projects
- Recognizes outstanding restoration projects
- Provides a forum for information sharing

We welcome the submission of articles and announcements related to your restoration project. Just send your write-up to EPA's contractor at restorationupdate@tetratech-ffx.com or mail it to Becky Schmidt, Biweekly Restoration Update Coordinator, Tetra Tech, Inc., 10306 Eaton Place, Suite 340, Fairfax, VA 22030. We will carefully consider your submission for inclusion in a future update. If your submission is selected, please note that it might be edited for length or style before being posted. Because this web site is meant to be a public forum on restoration information, we cannot post any information that is copyrighted or information that serves or has the appearance to serve as advocating or lobbying for any political, business, or commercial purposes.

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- [News and Announcements](#) - This section includes up-to-date information on regulatory issues affecting restoration, conference and workshop announcements, and other newsworthy tidbits.
- [Conferences and Events](#) - Upcoming wetland restoration related conferences are listed in this section along with other noteworthy wetland events.
- [Restoration-Related Web Sites](#) - Check out other groups on the Web that are helping in the effort to restore wetlands and river corridors.
- [Information Resources](#) - Books, journals, fact sheets, videos, and other information resources to aid you in your restoration project are provided here.
- [Ask a Restoration Question](#) - Post your restoration related question. Answers will be provided by the EPA and Bi-Weekly readers.

Feature Article

Projects Make Way for Salmon in Duck Creek

Duck Creek is a small anadromous fish stream. It's located in an old outwash channel of the Mendenhall Glacier, in the center of the most populated residential area of Alaska's capital, Juneau. Adversely affected by urban development, Duck Creek is listed by the Alaska Department of Environmental Conservation as impaired because of urban runoff, water quality limitations, and habitat modifications. Duck Creek has been an important salmon stream, providing salmon for commercial, sport, and subsistence fisheries and feed for the early fur farms in the valley. The chum salmon, which once numbered 10,000, are now extinct, and the coho salmon have been reduced to a fraction of their previous abundance. Duck Creek is unusual because it supports a large overwintering population of coho salmon juveniles, which migrate into the stream each fall from the estuarine wetlands to take advantage of the warm groundwater and extensive pond habitat. From this overwintering population, each year about 2,000 to 4,000 smolts are produced, providing returning mature fish to a variety of users.

In 1993 the Duck Creek Advisory Group (DCAG) was organized to coordinate activities for planning and implementing a program to restore water quality and anadromous fish habitat. DCAG comprises more than 25 organizations and partners, including the City and Borough of Juneau (CBJ), state and federal agencies, private businesses, conservation organizations, and individual homeowners. It provides education to the community, collects field data, holds monthly meetings, publishes a newsletter, and recently drafted the Duck Creek Watershed Management Plan.

The Duck Creek Watershed Management Plan recommended several restoration projects, a number of which have been completed. These projects include replacement of inadequate culverts with bridges and bottomless arches, installation of snow fences, revegetation of streambanks and riparian areas, removal of sediment in spawning areas, channel reconfiguration, and creation of stormwater treatment wetlands. For example, at one site CBJ made extensive changes to the stream to try to improve dissolved oxygen levels and restore salmon spawning habitat. Prior disturbances to the stream had removed most of the woody debris that normally would provide natural structural diversity. The stream channel had widened and become shallow, and the stream had little turbulence. CBJ reconfigured the stream channel to make it more constricted. They used suction dredges to remove fine inorganic and organic sediment from the streambed. Finally, they placed rock and wood structures to facilitate interchange between surface and intragravel water (increasing intragravel dissolved oxygen levels).

These and many other successful projects have led the Duck Creek watershed to become a national demonstration site to display stream and wetland technology. The project was recently named as one of four national winners of the CF Industries 2001 National Watershed Awards (http://www.cfindustries.com/commrelations/watershed/winners_2001.htm). For more information, see the National Oceanic and Atmospheric Administration's Alaska Fisheries Science Center web site at <http://www.afsc.noaa.gov/abl/Habitat/DuckCrk.htm> or contact K.V. Koski at (907) 789-6024 or k.koski@noaa.gov.

If you'd like your project to appear as our next Featured Article, e-mail a short description to restorationupdate@tetrattech-ffx.com.

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Community-Based Restoration Partnerships

Pennsylvania Is Growing Greener Thanks to Local Watershed Partnerships

Nonpoint source pollution has profoundly affected waters across the United States. In Pennsylvania 96 percent of impaired watersheds are polluted by nonpoint sources. In 1999 Pennsylvania updated its Nonpoint Source Management Program to include a watershed approach for planning and restoring Pennsylvania's waterways, and protecting them from nonpoint source pollution. To fund this approach, the Pennsylvania Department of Environmental Protection (DEP) instituted the Growing Greener Watershed Grants Program. The grants support projects that foster the development of community-based, watershed-oriented environmental organizations; implement restoration activities that reduce pollutant loads; develop watershed restoration plans; and conduct watershed assessments.

Since 1999 the Growing Greener Grant Program has sponsored numerous successful watershed restoration activities. In January 2000 an \$815,000 grant was awarded to Margaret Dunn and Stream Restorations Inc., a nonprofit organization that works to restore streams affected by abandoned coal mine drainage. The grant money allowed the partnership to build a passive treatment system to treat acid mine drainage discharge in Venango Township, Pennsylvania. The project that restored 2 miles of stream was completed in 9 months rather than the years it would have taken without the support of the grant program. Sixty community volunteers and 120 students from western Pennsylvania will also benefit from a Growing Greener grant. The students and volunteers are all part of the Stream Team, a water monitoring group that has gathered data at 100 stream sites along the Kiski-Conemaugh River Basin. The \$5,600 grant will allow the team to locate new monitoring sites, purchase equipment, and begin a public education campaign. The monitoring work of the Stream Team helps to identify sites in need of remediation work that will lead to improvements in water quality. To learn more about these and other Growing Greener

success stories, visit <http://www.greenworks.tv/gazette/page1.htm>. For more information about applying for Pennsylvania's Growing Greener grants, visit <http://www.dep.state.pa.us/growgreen/>.

Ecosystems Surrounding the St. Clair River Receive Help from Private Landowners

Corporations and other private landowners are giving new life to the St. Clair River ecosystem, thanks their participation in the Wildlife Habitat Council's St. Clair River Waterways for Wildlife program. The St. Clair River connects Lake Huron to Lake St. Clair along the border of Michigan and Canada. This 40-mile international waterway experiences heavy demands for shipping, power generation, municipal water supply, recreational uses, and industrial cooling and process water. In addition, residential, agricultural, and industrial development in the basin has eliminated over 95 percent of the riparian areas and up to 98 percent of the wetlands. To help reestablish some of this lost habitat, the Wildlife Habitat Council (WHC) initiated the St. Clair River Waterways for Wildlife program in 1995. The WHC is a nationwide nonprofit group of corporations, conservation organizations, and individuals committed to habitat restoration. Their Waterways for Wildlife program engages the leadership of the private sector, particularly corporations, for the conservation and protection of the St. Clair River Basin.

For example, WHC recently worked with one of its 115 nationwide corporate members, BP Amoco's St. Clair Terminal, to improve the habitat on the terminal's 125 acres. Their changes include planting 1,200 native tree seedlings, replacing a mowed lawn with a wildflower meadow, planting 10 acres of native prairie plants, and restoring a 5-acre wetland. The wetland restoration, a joint project with BP employees, the U.S. Fish and Wildlife Service, and Ducks Unlimited, Inc., involved replacing an old culvert under an access road with a water control structure to allow the wetland's water level to be regulated. By maintaining a constant water supply in the wetland, native wetland plants are returning to the area. For more information about this and other WHC projects, see <http://www.stclairwildlife.org/>, or contact Vanessa Kauffman, Director of Marketing and Communications, WHC, 1010 Wayne Ave., Suite 920, Silver Spring, MD 20910. E-mail: vkauffman@wildlifehc.org. For more information about a WHC-sponsored school wetland restoration project in the St. Clair River basin, see Bi-weekly issue #10.

If you are part of an innovative community-based partnership that is working to restore river corridors or wetlands, we'd like to hear from you. Please send a short description of your partnership to restorationupdate@tetratex-ffx.com.

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Achieving Restoration Results

Restoration Results Achieved with the Help of AmeriCorps Workers

This past year the New York City Department of Environmental Protection's (DEP) stream restoration efforts benefitted from the help of four AmeriCorps members. DEP employed the AmeriCorps members in its upstate watershed in a unique partnership with the Greene, Ulster, and Delaware County Soil and Water Conservation Districts and a locally based youth employment agency, the Youth Resource Development Corporation. "This partnership benefits DEP and the Soil and Water Conservation Districts, by providing additional staffing and developing local expertise in recognizing and evaluating stream problems," says DEP Commissioner Joel A. Miele, Sr., P.E. "Plus, it provides invaluable work experience to recent college graduates in the field of water resources."

The 10-month-long AmeriCorps assignment, which ended in October 2001, allowed members time to work on all aspects of these stewardship projects, from data collection and analysis to public meetings and fieldwork. They received hands-on technical training in stream surveying, geographic information system mapping, and biological monitoring. Recently, they assisted the Districts and DEP Stream Management Program staff with surveying eroding stream banks and beds, prioritizing these areas for future restoration work, planting appropriate riparian vegetation after stream restoration work was complete, and evaluating the condition of streams to improve and protect fish habitat and water quality.

Although AmeriCorps members participate primarily to receive hands-on professional experience, they do receive some financial compensation for their time. Over the course of their assignment they receive a weekly stipend from a local agency match—in this case, DEP. Once they complete

their 10-month assignment, the AmeriCorps members receive a federal education award of approximately \$4,700 for payment of undergraduate loans or future graduate studies. Information about AmeriCorps positions in upstate New York is available from the Youth Resource Development Corporation at (845) 473-5005. For more information about the DEP AmeriCorps program, contact Geoff Ryan at DEP at (718) 595-6600.

Multifaceted Project Restores Bottomland Wetland Habitat

In summer 2001 American Electric Power (AEP), The Conservation Fund, and the U.S. Department of the Interior's Fish and Wildlife Service (USFWS) joined forces to acquire, protect, and restore a bottomland hardwood forest on 18,372 acres near Catahoula Lake in east-central Louisiana, a major haven for migratory birds in the Mississippi Delta. The unique partnership is conducting land conservation and habitat restoration projects and a new carbon sequestration program.

The process began when The Conservation Fund acquired 18,372 acres from Tensas Delta Land Company. The Conservation Fund, in turn, conveyed 10,257 acres to AEP for \$3.2 million and 8,115 acres to the USFWS for \$1.5 million (from the Migratory Bird Conservation Fund, which provides federal funding for land acquisitions). AEP will restore bottomland hardwood habitat by planting native trees on its property and a portion of the property owned by the USFWS. The land on which AEP is planting trees is adjacent to the USFWS's Catahoula National Wildlife Refuge (NWR), a 6,535-acre natural area that was established in 1958 as a wintering area for migratory waterfowl. The refuge and its 26,000-acre lake provide Louisiana's major inland wetland, which is home to some 400,000 birds during peak times of the year.

"The Catahoula Lake region and the current Catahoula NWR are among the most important wetland habitats for waterfowl in the world," says Secretary of the Interior Gale Norton. "The Department of the Interior and the Fish & Wildlife Service, on behalf of the American people, are thrilled to be part of this important acquisition that will greatly enlarge the size of the existing refuge."

In the first phase of the Catahoula Reforestation Project, AEP planted a variety of bottomland hardwood trees, including various oaks, bald cypress, and green ash, on about 2,500 acres during the spring of 2001. The plantings took place on land that had been cleared for farming some 30 years ago and is now fallow. Ultimately, some 3 million trees will be planted. The entire planting program is to be completed by spring 2002.

A Win-Win Situation

"In every partnership each party seeks to accomplish something," says AEP chairman E. Linn Draper, Jr. "This three-way partnering relationship will accomplish goals of each of the parties. Obviously, the big picture goal for The Conservation Fund and the Fish & Wildlife Service is the restoration of natural habitat, which is forest. AEP, while supporting this larger goal, is directly interested in the carbon capture aspect of forests. We believe that large reforestation programs can offset a great deal of the carbon dioxide (CO₂) released during the combustion of fossil fuels."

AEP will submit data on carbon sequestration annually to the U.S. Department of Energy's Voluntary Reporting of Greenhouse Gases program, which was created by the Energy Policy Act of 1992. The program provides a national database in which companies, organizations, and individuals can establish a record of emissions, reductions, and sequestration achievements. For the years 1991-1999, AEP avoided or sequestered some 18 million tons of CO₂. Over the 70-year life of the Catahoula Reforestation Project, it is estimated that more than 5 million tons of CO₂ will be sequestered and converted to biomass.

"The Mississippi Delta is a vast watershed and landscape offering critical habitat for a diversity of resident and migratory wildlife," says John Turner, president of The Conservation Fund. "This exciting partnership of business, government, and the Fund represents a breakthrough in using voluntary and market-driven approaches to address air emissions and climate change as well as restore valuable wildlife habitat. The potential across America for this pioneer model is so great that we are launching a new carbon sequestration program to encourage similar cooperation with corporations and public resource agencies. Tens of thousands of acres of habitat can be restored with the investment and leadership of the private sector." For more information, contact Tom Ayres (AEP) at (614) 223-1973, Jack Lynn (The Conservation Fund) at (703) 683-2996, or Christine Eustis (USFWS) at (404) 679-7287.

If you are part of an innovative restoration project that has had positive results, we'd like to hear from you. Please send a short description of your project to restorationupdate@tetrattech-ffx.com.

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Funding for Restoration Projects

New Listings:

Farmable Wetlands Pilot Program

The Farmable Wetlands Pilot Program seeks to restore up to 500,000 acres of farmable wetlands and associated buffers by restoring the land's natural hydrology and vegetation. Eligible producers in Iowa, Minnesota, Montana, Nebraska, North Dakota, and South Dakota can enroll wetlands of up to 5 acres along with associated buffer zones in the program, which is administered by the Natural Resources Conservation Service (NRCS). Leroy Brown, State Conservationist for the Iowa NRCS, comments that "Now is an excellent time to consider enrolling land in the Farmable Wetlands Program." Iowa NRCS has received applications for less than one-fourth of the total amount of land they can enroll in the program. For more information, contact a local U.S. Department of Agriculture Service Center or visit <http://www.fsa.usda.gov/pas/publications/facts/html/wetland01.htm>.

Pennsylvania's Growing Greener Grant Program

The Pennsylvania Department of Environmental Protection awards Growing Greener Watershed Grants to organizations working at the local level to reduce pollution from nonpoint sources. Qualified projects foster the development of community-based, watershed-oriented environmental organizations; implement restoration activities that reduce pollutant loads; develop watershed restoration plans; or conduct watershed assessments. Grants are paid as a reimbursement for project expenses and range from \$5,000 to \$100,000, with the average award being \$20,000. For complete information on Pennsylvania's Growing Greener Program, including the application package due February 8, 2002, visit <http://www.dep.state.pa.us/growgreen/defaultdep.htm>.

Please send any news you have on funding mechanisms available to local community organizations to restorationupdate@tetrattech-ffx.com.

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News and Announcements

Deadline Nears for 2002 National Wetlands Award Nominations

Nomination forms are currently available from the Environmental Law Institute for the 2002 National Wetlands Awards. The deadline for submitting nominations is December 15, 2001. The Awards program honors individuals from across the United States. Awardees demonstrate extraordinary effort, innovation, and excellence in wetland conservation, research, or education through programs or projects at the regional, state, or local level. All awards are made to individuals, not to organizations. (Please note that federal employees are not eligible for recognition in this program.)

The five categories for the National Wetlands Awards are Education/Outreach, Science Research, Volunteer Leadership, Land Stewardship and Development, and Outstanding Wetlands Program Development.

A Selection Committee composed of wetland experts drawn from business, conservation organizations, and state and federal government will select the winners from among nominations received. The awards will be presented in June 2002 in a ceremony held in Washington, DC, on Capitol Hill.

The program is organized by the Environmental Law Institute with the cosponsorship of the U.S. Environmental Protection Agency, Natural Resources Conservation Service, U.S. Fish & Wildlife Service, USDA Forest Service, and National Marine Fisheries Service.

To receive a copy of the 2002 National Wetlands Awards nomination form, or for more information about the awards, contact Dorigen Fried at (202) 939-3250 or e-mail fried@eli.org. You may also write to the National Wetlands Awards Program, Environmental Law Institute, 1616

P Street, NW, Suite 200, Washington, DC 20036 or visit the ELI web site at <http://www.eli.org/nwa/nwaprogram.htm>.

Government and Industry Join Forces to Restore Rhode Island's Wetlands In October 2001 U.S. Senator Lincoln Chafee of Rhode Island joined industry executives, state environmental officials, and nonprofit environmental groups to launch a first-of-its kind partnership to restore Rhode Island's valuable wetlands. The Rhode Island Corporate Wetlands Restoration Partnership (RI-CWRP) will combine corporate contributions with federal and state matching funds to restore degraded coastal and freshwater wetlands and fish and wildlife habitats in the Ocean State. The program is entirely voluntary and is a joint effort of Rhode Island corporations, government agencies, and nonprofit environmental groups.

The partnership will help fund priority habitat restoration projects throughout the state identified by the Rhode Island Habitat Restoration Team. Examples of these projects are the restoration of coastal wetlands, fish passage over dams, and the reestablishment of eelgrass beds. The Rhode Island Habitat Restoration Team is composed of agency officials, university scientists, environmental consultants, and nonprofit organizations, which are collaboratively working to restore the state's coastal habitats.

Private funds contributed to the partnership will leverage federal matching dollars. The match will vary by project, but in general, every RI-CWRP dollar invested will result in up to four dollars of habitat improvement.

Environmental Science Services, Inc. (ESS), a Providence-based environmental consulting firm, and Narragansett Electric Company, the largest electricity retailer in Rhode Island, are the RI-CWRP's lead corporate sponsors. Arch Chemicals, Inc., Battelle, and Applied Science Associates have signed on as charter members of the partnership. Partners also include nonprofit groups and academia.

Rhode Island becomes the fourth New England state to launch a CWRP program. The program was originally launched in 1999 in Massachusetts by the Gillette Company, the U.S.

Environmental Protection Agency, and the Massachusetts Executive Office of Environmental Affairs. The MA-CWRP raised more than \$1 million in its first year and has already supported several important restoration projects. Last year, the federal government, through the Coastal America partnership, adopted the program as a national initiative. Programs are currently active in Alaska, Maine, Connecticut, Texas, and the Gulf of Mexico. Gillette is national corporate chair of the CWRP, and the National Association of Manufacturers (NAM) is the national sponsor. NAM is inviting its Rhode Island members to join the effort, as is the Rhode Island Environmental Business Council. For more information, see

<http://www.coastalamerica.gov/text/pressevent1101.html> or contact Rich Kleiman (ESS, Inc.) at (781) 431-0500, Bill Hubbard (Coastal America) at (978) 318-8552, Richard Ribb (Rhode Island Department of Environmental Management) at (401) 222-3165 ext. 7271, or Steve Cooper (Save The Bay) at (401) 272-3540 ext. 124.

Illinois Wetlands Protected by State Acquisition Program

In October 2001 Illinois Governor George H. Ryan announced the acquisition of 345 acres of land adjacent to Goose Lake Prairie State Natural Area and Heidecke Lake State Fish and Wildlife Area in Grundy County to protect high-quality prairie and provide habitat for grassland and wetland wildlife. "This acquisition through my Open Land Trust initiative will provide additional protection for a rare prairie that is home to grassland and wetland birds and two threatened or endangered insect species," says Ryan.

The acquisition includes two parcels totaling 340 acres purchased with \$1,473,000 in funding from the Governor's Open Land Trust Program, the 4-year, \$200 million initiative to acquire property for conservation, natural resource protection, and recreation purposes. Another 5-acre parcel acquired for \$21,725 through state Park and Conservation funds is a parking lot that will be available for use by anglers at Heidecke Lake. Commonwealth Edison Company owned the parcels and leased them to the state.

"The larger parcels are among the largest tracts of unprotected prairie in the state," the Governor says. "The acquisition will allow restoring and enlarging of the grassland habitat at Goose Lake Prairie to benefit wildlife, while enhancing recreational uses including bird watching, hiking, and deer hunting."

To date, the Governor's Open Land Trust Initiative has resulted in the state's acquisition of more than 23,750 acres for needed open space, recreational opportunities, wildlife habitat, forest restoration, and protection from development. In addition, local governments are acquiring more than 3,400 acres of open space through the Open Land Trust grant program.

The 2,838-acre Goose Lake Prairie State Natural Area features a variety of prairie and wetland habitats and represents the largest remnant of prairie left in Illinois. It is home to deer, fox, beavers, badgers, barred owls, red-tailed hawks, red-winged blackbirds, and great blue herons. Two species of threatened or endangered insects, the redveined prairie leafhopper and the eryngium stem borer, are also found on the site. The 1,475-acre Heidecke Lake State Fish and Wildlife Area is located just north of Goose Lake Prairie. For more information, see <http://www.state.il.us/gov/press/01/oct/1023goose.htm>.

National Aquarium in Baltimore Receives \$100,000 for Wetland Restoration

The National Oceanic and Atmospheric Administration (NOAA) awarded the National Aquarium in Baltimore \$100,000 to support grassroots efforts to restore critical fisheries habitat throughout the Chesapeake Bay. The National Aquarium plans to restore 20 acres of wetlands around the bay. Restoration activities will include shoreline stabilization and habitat creation. Public participation will be a vital part of this program. Public involvement is important because participation in restoration activities often leads to the development of community stewardship and the desire to protect the bay's resources for future generations.

The grant money will also be used to create a minority student internship program between the National Aquarium and Morgan State University. This partnership will help Morgan State achieve its goal of providing exciting habitat restoration and monitoring programs to students from underserved populations. Morgan State professors are excited about the possibilities this partnership may provide. For more information, visit http://www.enn.com/news/enn-stories/2001/11/11272001/grant_45645.asp.

Applications Being Accepted for 2002 Gulf Guardian Awards

The partnership of the Gulf of Mexico Program has announced the third annual 2002 Gulf Guardian application package. The Gulf of Mexico Program wishes to recognize outstanding organizations and projects that have worked toward the stewardship of the beautiful, expansive, and productive resource of the Gulf of Mexico. Applications are due January 15, 2002, and winners will be announced in February. The on-line application package can be downloaded from <http://pelican.gmpo.gov/gulfguard.html>.

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Conferences and Events

EMAP Symposium 2001

April 24-27, 2001

Pensacola Beach, Florida

The Environmental Monitoring and Assessment Program Coastal Symposium 2001 is a 4-day symposium jointly sponsored by the U.S. Environmental Protection Agency's Office of Research and Development and the Council of State Governments. The symposium will provide a forum to present and discuss the results of successful programs. Federal, state, tribal, and academic scientists will be given the opportunity to develop new partnerships to advance the science of monitoring and assessing coastal resources. Topics for discussion at the symposium include

- Coastal 2000's scientific programs and how they have met state and tribal needs.
- Partnerships between federal, state, tribal, and academic organizations in coastal research and monitoring.
- The achievement of more efficient, less expensive, and more scientifically rigorous monitoring and assessment.
- How research can lead to a better understanding of the roles of monitoring, assessment, and identifying, diagnosing, and solving coastal problems.

- How academic research supported by ORD's Science to Achieve Results program has promoted the development of new ecological indicators for monitoring and assessing the condition of the coastal environment.

Northwest Stream Restoration Design Symposium

January 31-February 2, 2002

Skamania Lodge, Washington

The Center for Water and Environmental Sustainability; the Civil, Construction, and Environmental Engineering Department at Oregon State University; and the City of Portland's Bureau of Environmental Services are sponsoring this symposium to advance the state of practice for professionals involved in stream restoration projects. The symposium will focus on restoration questions of concern to project planners, designers, managers, regulators, and owners. The program addresses urban stream restoration; use of wood versus rock in stream restoration projects; stream restoration design approaches, methods, and analyses; adaptive management during construction and thereafter; and dam removal and reestablishment of a riparian environment. Emphasis is placed on constructed projects and the lessons learned that can be used in other projects. For more information, visit <http://www.cwest.orst.edu/>.

Eleventh International Conference on Aquatic Invasive Species

February 26-March 1, 2002 (rescheduled)

Alexandria, VA

This annual 4-day conference presents a comprehensive forum for the review of accumulated scientific knowledge and presentation of field research related to aquatic invasive species. New technological developments for prevention, monitoring, control, and mitigation of invasive species will be presented along with a discussion of policy, legislation, public education, and outreach initiatives. Registration and program information is available at the conference web site at <http://www.aquatic-invasive-species-conference.org/>.

The Ecology and Management of Rare Plants of Northwestern California

February 6-8, 2002

Arcata, California

This conference will provide current information to enhance rare plant management in northwestern California and southeastern Oregon. Invited speakers will deliver overviews of major taxa and issues in three main areas: autecology and life history; survey and monitoring; and management, protection, and restoration. Contributed oral and poster presentations will offer perspectives on new research and findings, as well as illustrate examples of successful programs, approaches, and case studies. In addition, the symposium will provide an opportunity for biologists, natural resource professionals, planners, and policy-makers to share their concerns and knowledge about rare plant issues and to formulate research and education needs. For more information, visit <http://www.northcoast.com/~cnps/>.

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Restoration-Related Web Sites

<http://www.wa.gov/wdfw/hab/ahg/>

Aquatic Habitat Guidelines Project The interagency Aquatic Habitat Guidelines team has launched this new web site. It contains a series of papers that describe the current understanding of how land uses and development affect aquatic and riparian habitats and summarize literature on stream restoration strategies.

Manuals that provide how-to information for habitat restoration projects and case studies are also accessible through the site. *Provides useful technical assistance for organizations working to protect and restore salmon habitat.*

<http://www.rioweb.org/>

The Rio Grande/Rio Bravo Basin Coalition is a multinational, multicultural organization with leadership from the United States, Mexico, and the Pueblo nations. Its purpose is to help local communities restore and sustain the environment, economies, and social well-being of the Rio Grande/Rio Bravo Basin. *Provides facts and publications relevant to the Rio Grande River Basin as well as information on current restoration projects.*

<http://pelican.gmpo.gov/pubinfo.html>

The Gulf of Mexico Program was formed in 1988 to develop and implement voluntary, incentive-based management strategies to protect, restore, and maintain the health and productivity of the Gulf of Mexico ecosystem. The Gulf of Mexico Program works with 18 federal agencies; environmental agencies from the states of Florida, Alabama, Mississippi, Louisiana, and Texas; and numerous public and private organizations. *Would be useful to anyone seeking the resources to begin a restoration project in a Gulf of Mexico state.*

<http://www.vernalpools.org/mitigation.htm>

California Vernal Pools is a nonprofit organization dedicated to saving California's vernal pools and distributing information and resources. This web site provides links vernal pool resources including animal and plant species, conservation programs, federal and state regulations, publications, and reference materials. *Would be useful to anyone seeking to learn more about vernal pools or organizations seeking to protect vernal pools.*

<http://www.earthconcorps.org/>

Earth Conservation Corps is a nonprofit organization established in 1989. The Earth Conservation Corps gives young adults with limited opportunities from Washington, DC, urban communities and Native American communities the chance to make something of themselves in the face of uncertain futures. Projects currently undertaken by the Corps include the restoration of the Anacostia River and of salmon passages in the U.S. Northwest. *Provides a useful guide on how a volunteer organization can work toward river restoration.*

<http://www.cbf.org/>

Chesapeake Bay Foundation is a nonprofit organization dedicated to protecting the Chesapeake Bay through education and environmental protection and restoration. This site provides news and resources about the bay, opportunities to get involved in restoration activities, environmental education materials, and a report of the status of the bay. *Would be useful to people seeking information about the Chesapeake Bay, the steps being taken to restore it, and what they can do to help.*

<http://www.csc.noaa.gov/techniques/htm/techniques.html>

NOAA Coastal Services Center Coastal Management Techniques is a searchable database containing methods, strategies, and policies for addressing various coastal issues. The database is organized to allow a search by technique

type and/or by coastal issue. This database provides links to a wide variety of coastal management information on the web. *Would be useful to anyone looking for technical information about present or past coastal management programs.*

<http://www.ocrm.nos.noaa.gov/nerr/>

NOAA's National Estuarine Research Reserve System protects and studies estuarine areas through a network of 25 reserves. This web site contains information on the importance of estuaries, national programs at the research reserves, reserves in various state, and critical issues, such as polluted runoff, restoration science, invasive species, and environmental stewardship. *Provides current research on estuaries as well as links to training opportunities sponsored by the National Estuarine Research Reserve System.*

<http://www.nwstraits.org/nsc.html>

Northwest Straights Marine Conservation Initiative provides a way for local, tribal, state, and community representatives to work together to protect vital marine resources in northwest Washington State. The Initiative draws strength from citizen-driven efforts to garner community support for measures to protect and restore the Straits' salmon, shellfish, bottomfish, and other vital resources, plus the habitats they need to survive. *Provides information on threats currently facing the Northwest straits, steps being taken to protect the straits, and background information and reports outlining the current state of the straits.*

<http://www.mde.state.md.us/wetlands/>

The Maryland Department of the Environment's Wetlands and Waterways Program web page includes extensive information about Maryland's efforts to protect and restore wetlands. This site discusses Maryland's Wetland Conservation Plan and restoration initiatives; it also offers an extensive list of training and education resources. *Would be useful to anyone wanting to view an example of a successful state-level wetland management program.*

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Information Resources

Wetlands Restoration Handbook for Wisconsin Landowners Published by the Bureau of Integrated Science Services, 2000

This handbook provides general guidance for Wisconsin landowners interested in improving the health of their wetlands. It discusses conservation, restoration, and management techniques that will improve drained, ditched, or otherwise degraded wetlands and provides a range of activities that can greatly improve the values and functions of wetland resources. This handbook can be downloaded from the web site

<http://www.dnr.state.wi.us/org/water/fhp/wetlands/documents/handbookfront.pdf>, or a hard copy can be ordered by contacting Martin Griffin at (608) 226-8424 or by e-mail at griffmp@dnr.state.wi.us. Request the *Wetland Restoration Handbook for Wisconsin Landowners*, pub # SS-944-00.

Hope and Hard Work: Making a Difference in the Eastern Coal Region Published by the Canaan Valley Institute, 2001

This book highlights the invaluable services volunteers perform in the restoration of watersheds that have been degraded by abandoned mine drainage. It relays the important message that local

efforts are the key to success. Many of the groups showcased represented the Eastern Coal Region at the 2001 Roundtable and National Watershed Forum held in Alexandria, Virginia. (800) 922-3601.

Managing Lakes and Reservoirs Published by the Terrene Institute and the North American Lake Management Society, 2001

This 400-page manual gives people who live around lakes a road map for improving their lake as a natural resource and answers common questions about protecting lakes and reservoirs. The manual was written by nine limnologists and lake professionals with more than 500 collective years of experience working with lakes and reservoirs. It addresses algae control, watershed management, lakeshore vegetation, phosphorus levels, and modeling water quality. Copies are available for \$33.95 plus shipping. For more information or to order a copy, call (800) 726-4853. Copies are also available from the North American Lake Management Society at <http://www.nalms.org/>.

If you'd like to publicize the availability of relevant information resources, please send information to restorationupdate@tetrattech-ffx.com.