

[NEBC Members in the News](#)

[NEBC Events](#)

[Industry Events](#)

[NWETC Classes](#)

[Employment Opportunities](#)

Why a Water Conference?

Societal Challenge & Business Opportunity

In Western water circles there is a saying that: “Whiskey is for drinking and water is for fighting.” That truism is at the heart for why water is positioned to become one of the largest challenges we face in the coming decades. It reflects that (a) water is a finite resource, and (b) most of it is locked up in a complex web of ownership.

Just compare water to electricity. Both are essential resources, mostly delivered through utility infrastructures, but that’s where the similarity ends. Electricity can be created in numerous ways, with the key limit being the price we are willing to pay. Conversely, water cannot be created; it can only be captured, used, and perhaps re-used before returning to its natural cycle.

Electricity has clear ownership (the generator) and clear regulation of use (utility commissions, utilities, codes). Conversely, as a natural resource, water is owned by those who can place a claim on it – resulting in wide dispersal of ownership. As a consequence, its use is much more difficult

to regulate, and is governed as much by the courts as by state regulatory bodies.

Concern over the climate change impacts of generating electricity from fossil fuels –along with an eventual end to the supply of fossil fuels – has spurred the development of cleaner energy technologies using renewable resources. Water supply, on the other hand, is being impacted by climate change. In the Northwest, this will likely mean not a reduction in rainfall, but a shifting in the behavior of mountain snow packs. The impacts of this on agriculture, industry, and households – and on the natural flow of streams and rivers – will be enormous.

While these impacts may be some time off in the future, dealing with the water challenge will be much more difficult and complex than dealing with the energy challenge. And now is the time to start. In fact, much good, thoughtful, and important work is being done around the region to craft new approaches and methods for dealing with water resources shortages.

NEBC members are at the heart of this effort. That is why we are hosting a new conference – “Water Solutions: Innovations in Water Management”

(June 16, Vancouver, WA). As the name implies, the purpose is to get beyond defining the problem, and to share innovative ideas being put into practice now, and what is being learned from them. Also, unlike most conferences, this one addresses the issue from a multi-sector, multi-discipline perspective.

Again, providing for and managing our water needs is a huge and critical challenge. It is also an enormous business opportunity, given the resources that will be going to address the problem over the coming years.

Don’t miss out. See you there.

Robert Grott
Executive Director



[Back to top.](#)

NEBC Members in the News

StormwaterRx receives AWB Environmental Excellence Award. Awards spotlight environmental innovation, cutting-edge technology, conservation. StormwaterRx LLC received the Green Enterprise & Technology Award from the Association of Washington Business (AWB) at the association's annual Spring Meeting in Spokane in May. Honored for their environmental innovation, initiative and sustainability, Cal Noling, founder and president of StormwaterRx accepted the award. "We are honored to receive this award from the AWB," said Calvin Noling, president and CEO of StormwaterRx LLC. "Winning an Environmental Excellence award in the state of Washington, while also seeing one of our customers receive honors for their own environmental leadership, holds particular significance for us." StormwaterRx is an environmental products company providing packaged stormwater treatment systems and integrated design services for industrial facilities throughout North America. In addition, StormwaterRx customer Seaview Boatyard Inc. received an AWB award for Leading Environmental Practices for their implementation of green technologies and practices, including storm water treatment.



(Left to Right) Bill Glover of Boeing, Calvin Noling of StormwaterRx, AWB Board Chair Lynn-Townsend White of Western-Polymer & AWB Immediate-Past Chair David Brukart.



David Van't Hof

Van't Hof Recognized As A 2011 Pivotal Leader. Lane Powell Shareholder David E. Van't Hof has been named a Pivotal Leader for the second consecutive year. Pivotal Leaders, a community-nominated and peer-selected network of the top prospective clean technology business leaders with ties to the Northwest, selected David because he is an entrepreneurial business leader with the knowledge, talent and business acumen to lead successful clean technology companies in the Northwest. Van't Hof is a member of Lane Powell's Renewable Energy, Clean Tech, and Sustainability and Climate Change Practice Groups. He has worked in sustainability and clean technology throughout his career. As the Sustainability Policy Advisor to Oregon Gov. Ted Kulongoski, he led the state's participation in the Western Climate Initiative and in developing the state's nationally recognized climate change and renewable energy policies. Van't Hof is also a frequent author and speaker on renewable energy, sustainability and green-building.

Eric Weber, Landau Associates' Principal Hydrogeologist, will moderate a session on "Flexible Approaches to Water Rights" at the upcoming NEBC Water Solutions Conference, June 16 in Vancouver, USA. The session will address creative tools being employed both nationally and in the region to enhance water availability by working with and around the restrictions of water

law and traditional approaches to water rights.

[Back to top.](#)

NEBC Events

June 9. Portland Luncheon. Oregon Air Quality Update. Regulations for protecting Oregon's air quality are continually evolving, based on rules put out by the EPA plus local considerations. New aspects of Oregon air permitting rules include the incorporation of PM 2.5 particulate size emission testing, application of MACT (maximum achievable control technology) rules to control hazardous air pollutants (HAPs) for certain boilers, and Green House Gas (GHG) reporting. Presenters will discuss these developments, time lines, and implications for regulated parties.

June 9. Boise Lunch. Renewable Energy & The Environment. Is the deployment of large renewable energy projects at odds with environmental protection? Mark your calendars for NEBC's Rocky Mountain Chapter lunch and join a discussion of energy projects cumulative impacts on both wildlife and people, and how developers and communities can address the competing values of clean energy, environmental protection, quality of life, and economic growth.

June 14. Oregon Brownfields Forum Meeting. Portland. 10:30-12:30 (with a tour of new Port of Portland HQ at 1:00) Portland International Airport, Port of Portland Headquarters, Chinook Room (for Directions go to the Calendar Listing at <http://nebc.org/Events.aspx>). This meeting will focus on Ports. First will be a presentation by the Port of Portland's Keith Leavitt and Joe Mollusky on the Port's industrial lands redevelopment efforts, including the next phase for the Troutdale Reynolds Industrial Park (a recent Phoenix Grand Award Winner). Next will be a presentation on the Port of Newport by Business Oregon's Karen Homolac, including a Viewing of ICMA TV Film (shown at the 2011 National Brownfields Conference) and a slide show of recent activities. We will also discuss upcoming events, a legislative update, and other news. Following a lunch break on your own at the world-renowned PDX food court, we will have a tour of the Port of Portland's new (and amazing) office building. No charge, but please RSVP to robert@nebc.org

June 16. Water Solutions Conference. Vancouver, WA. NEBC and The Water Report present a conference about innovative approaches that can change how we managing water resources in the Northwest. Providing an

adequate supply of water to a growing population, while meeting the needs of the natural environment, is one of the most complex challenges we face as a society – especially with the prospect of climate-induced changes to historical supply patterns. However, the components of this challenge tend to be addressed in relative isolation. This conference takes a different

approach and is designed to share creative solutions and innovative ideas about water resources across sectors and disciplines. **Information at:** <http://www.nebc.org/content.aspx?pageid=100>

June 29. Oregon Energy Forum: Legislative Review. Portland. The legislature is still wrestling with the fate of the BETC and incentives for renewable energy, efficiency, and manufacturing. But by our next meeting, the gavel will have come down, and we can discuss what happened, why, and the path going forward. Leading the conversation will be David Van't Hof of Lane Powell, Lisa Adatto of Climate Solutions, and others. No charge, but please RSVP to robert@nebc.org

July 13. Olympic Chapter Summer Rooftop Mixer. Seattle. Summer- Finally! This means it's time for NEBC's Annual Rooftop Mixer! Savor delicious hors d'oeuvres, sip a cool beverage and relax with friends, colleagues and NEBC members for this fun event. Unwind in the park-like setting of the K & L Gates 7th floor rooftop patio. Gaze out at the ferries crossing the Sound to the west, Mt. Rainer to the southeast and leave the traffic jams to someone else this evening. This annual event is a perfect opportunity to meet new members and network with potential partners. Registration includes a drink ticket and hors d'oeuvres.

July 29. NEBC Annual Golf Tournament.

Portland. New Course! New Lower Price! NEBC Annual Golf Tournament has moved! Glendoveer Golf Course, 14015 NE Glisan is the site of this year's tournament. We'll be teeing off on the East Course, considered the most demanding because of its length and tight, tree-lined fairways. But not to worry, a shotgun start and playing best ball this tournament is designed for all levels – whether you are up on your game or a duffer. Not a golfer, then join us for the BBQ before the tournament! We'll be enjoying lunch next door at the RingSide Steakhouse before teeing off at 1:30pm.



Last year's Waste Management Foursome
Troy, Matt, Steve and Mark



November 8 & 9. BUSINESS & THE ENVIRONMENT CONFERENCE & TRADE SHOW Portland. *The* conference for today's environmental & operations managers. For fifteen years, Northwest Environmental Business Council (NEBC) has hosted an environmental solutions trade show that has grown into the largest event of its kind in the Northwest. As part of the new **BUSINESS & THE ENVIRONMENT CONFERENCE** and its expanded content, sponsors and exhibitors will gain access to

a broader range of conference attendees than ever before. The educational component of the conference goes beyond environmental compliance to include areas of current interest to the business sector that also relate to profitability and competitiveness. While regulatory compliance is the cornerstone of environmental management, other operational elements such as energy efficiency, waste minimization, and product stewardship not only benefit the environment but also directly contribute to reducing costs, increasing profitability, and enhancing competitiveness. The **BUSINESS & THE ENVIRONMENT CONFERENCE** brings these elements together to help companies thrive in today's economy.

[Back to top](#)

Industry News & Events

New Water Management Model. By Martha Pagel, Schwabe, Williamson & Wyatt. For a brief window of time, from April 1 to April 14 of this year, water flowed from the Columbia River to recharge groundwater in the Umatilla River Basin in North Central Oregon — a significant first step toward implementation of the Umatilla Basin Aquifer Restoration Project (Project). The Project, in turn, is the realization of a long-held vision among local stakeholders to restore severely depleted groundwater and enhance in stream flows in the Umatilla River. In addition to providing much-needed water supply for the region, the Project has been a catalyst for bringing together a wide range of local interests to form a new administrative framework for water management. [\[Read the full article - "Reprinted with permission from The Water Report — a monthly news digest for water professionals covering water issues in the American West"\]](#)

EPA Construction General Permit Overview. Stormwater discharges from construction activities (such as clearing, grading, excavating, and stockpiling) that disturb one or more acres, or smaller sites that are part of a larger common plan of development or sale, are regulated under the National Pollutant Discharge Elimination System (NPDES) stormwater program. Prior to discharging stormwater, construction operators must obtain coverage under an NPDES permit, which is administered by either the State (if it has been authorized to operate the [NPDES stormwater program](#)) or EPA, depending on where the construction site is located. ... The proposed new CGP includes a number of modifications to the 2008 CGP, many of which are necessary to implement the new Effluent Limitations Guidelines and New Source Performance Standards for Construction and

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Development point sources, known as the “C&D rule.” [\[Read the full article - "Reprinted with permission from The Water Report - a monthly news digest for water professionals covering water issues in the American West\]](#)

Welcome New Members

[Research Into Action, Inc.](#)

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Welcome Renewing Members

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June 16. Designing Air-Powered Pumping Systems for Remediation and Landfills. WEBINAR. Get the latest information on air-powered pump system design, operation and maintenance from David Kaminski, Senior Vice President of QED Environmental Systems and a frequent presenter on air-powered pumping technology to industry organizations, universities, and regulatory agencies worldwide. In this two-part webinar series, David will discuss the criteria used for designing an air-powered pumping system for maximum performance and efficiency and how to maintain the system for years of reliable operation. Everything from sizing the air system to troubleshooting and cleaning will be covered in these two one-hour webinars. (Part 2 Troubleshooting & Maintenance of Air-Powered Pumping Systems TBA)

June 16. FGD Wastewater Treatment. WEBINAR. The McIlvaine Company, a market research and publishing company focused on the utility industry, conducts a weekly webinar, called Hot Topic Hours, on important air pollution control subjects. On June 16, the topic will be FGD Wastewater Treatment and our own Michelle Briscoe has been invited to give a brief presentation on the proper analytical techniques required to accurately establish the concentrations of heavy metals in [FGD wastewater](#). To participate in this upcoming live webinar, visit McIlvaine's [website and register](#).

June 21 – 24. 104th A&WMA Annual Conference & Exhibition. Florida. The 2011 Air & Waste Management Associations Conference & Exposition, June 21-24, in Orlando, brings together more than 2,000 environmental industry professionals for three days of the best technical program in the industry. 500 presentations, two poster sessions with over 150 posters displayed, over 150 exhibitors and networking events that create new relationships to help boost your career. More information and to register <http://events.awma.org/ace2011>.

June 27-29. 2011 AWRA Summer Specialty Conference. Integrated Water Resources Management: The Emperor's New Clothes or Indispensable Process. The Conference is designed to define Integrated Water Resources Management (IWRM), to examine how it works in actual practice, and to explore it from both U. S. and International perspectives. Federal, state, and local officials will discuss how their

organizations are implementing or planning to implement IWRM. Presenters both from the U. S. and internationally will discuss appropriate approaches for IWRM and how well it works in practice. They will provide case studies of IWRM, and address whether water can be managed cost effectively and sustainably without an integrated approach. Among other questions addressed will be “Is IWRM applicable to ground water systems”, and “How are IWRM and adaptive management related?” <http://www.awra.org/meetings/Summer2011/>

July 18 – 22. Iowa. The five-day Biodiesel Technology Workshop co-sponsored by the University of Idaho and Iowa State University will take place from July 18-22, 2011, in Ames, Iowa. This workshop covers business management for biodiesel producers, biodiesel analytical methods, and biodiesel production technology. For more information and to register: <http://www3.me.iastate.edu/biodiesel/>

July 24 – 29. 10th International Conference on Mercury as a Global Pollutant. Nova Scotia. The theme for the upcoming meeting is Air, Land, Sea, and Me. It will provide a forum for the exploration of the linkages among mercury sources to the environment, terrestrial and aquatic mercury transport and fate processes, and health

risks associated with exposures of humans and wildlife to mercury. Current issues such as climate change and new regulatory frameworks will be key topics for presentation and discussion. We look forward to welcoming you to Canada and the spectacular maritime province of Nova Scotia, where the heritage of the sea runs deep. More information <http://mercury2011.org>.

August 3-4. [Ocean Renewable Energy Conference](#). Portland. Seven years ago, Oregon proved its intent to lead the nation in the development of ocean energy by funding Oregon Wave Energy Trust (OWET). This year, the first full-scale commercial buoy will go into the water off the Oregon coast, and several developers are on the ground studying project feasibility. The sixth annual Ocean Renewable Energy Conference hosted by OWET will focus on where we are – and what we need to do – to responsibly accelerate the development of this new industry and realize its full economic and environmental potential in Oregon, nationally and internationally. \$50 discount for NEBC members (use code OWETPDX11). Early registration ends June 20. For more information and to register, go to <http://www.oregonwave.org/events/2011-conference/>

[Back to top](#)

[NWETC Classes](#)

Northwest Environmental Training Center and NEBC have partnered together to offer NEBC member companies an exceptional opportunity to provide continuing education to its employees at a 20% discount off the published rate on all of NWETC's technical training workshops, conferences, and seminars. Following are many of the current classes/seminars. Full listing can be found at www.nwetc.org

June 14 - 15. Certified Erosion and Sediment Control Lead Training. Issaquah, WA. This exciting course examines the most up-to-date techniques in the management of sediment and construction sites. Students who attend can receive their Certified Erosion and Sediment Control Lead Training Certification (CESCL) from the Washington State Department of Ecology. This 2-day course is a dynamic interaction between the traditional lecture classroom style and hands-on exercises that will take place throughout. These exercises allow each student to practice choosing and correctly installing mats, blankets, check dams, bonded fiber matrix, straw, and other erosion control techniques for various site locations. Upon completion students will know how to simply and confidently comply with federal, state, and local regulatory requirements of stormwater management. [Register Online.](#)

June 15 - 17. Introduction to ArcGIS10 and Environmental Applications. Olympia, WA. This 3-day hands-on class introduces participants to the environmental applications of ESRI's ArcGIS 10 software. The course will build upon a discussion of general concepts and vocabulary to form a comprehensive overview of ArcGIS 10's functions and uses in the environmental field functionality. Each participant will use their own computer workstation to create, edit, and analyze real world environmental data during hands-on exercises. Participants will also have an opportunity to expand their skills by applying their knowledge to more complex and in-depth projects. [Register Online.](#)

June 22. Introduction to the Model Toxics Control Act. Seattle, WA. The objective of this one day workshop is to introduce environmental consultants, federal, state and local government staff, and members of the general public to Washington's Model Toxics Control Act (WAC 173-340). This workshop will provide an overview of the MTCA administrative requirements and associated cleanup standards. Participants will also learn the MTCA remedy selection process and public involvement requirements. Both instructors have a deep and thorough understanding of MTCA and will welcome questions at the end of each topic. [Register Online.](#)

June 23 - 24. Establishing Soil Groundwater and Surface Water Cleanup Under the Model Toxics Control Act. Seattle, WA. This course provides attendees with an in-depth understanding of the procedures for establishing cleanup levels and points of compliance under the Model Toxics Control Act (WAC 173-340). The course covers procedures for establishing cleanup levels using Methods A, B, and C for groundwater, surface water and soil, as well as an overview of recent rule revisions related to dioxins/furans, PCBs, and carcinogenic PAHs. Additionally, the terrestrial ecological evaluation process to soils at sites will be covered. [Register Online.](#)

June 28 - 30. Environmental Negotiations for Scientists and Resource Managers. Olympia, WA. This workshop provides attendees with improved skills for effective participation in environmental negotiations. Environmental negotiations are often more complex due to their technical and regulatory intricacy, interest from many parties, and the emotional nature of parties involved. This workshop presents basic negotiation concepts, specific environmental applications, and principled (ethical) negotiation approaches for building trust and relationships. [Register Online.](#)

July 13 - 14. Introduction to the California Environmental Quality Act (CEQA). Sacramento, CA. This workshop provides an applied overview of the California Environmental Quality Act, with an emphasis on the process and technical requirements of environmental impact assessment. The course will begin with a brief background on environmental impact assessment in the U.S. and of CEQA's regulatory context, followed by an overview of various approaches used in scoping and preparing environmental impact assessments under CEQA. Students will examine the documents required under CEQA and the roles of key players involved. Students will also determine the adequacy of CEQA documents as they relate to environmental settings, impact assessment, mitigation development, significance thresholds, and data sources. Lastly, the course will include a discussion of the documents and processes for projects regulated by the National Environmental Policy Act (NEPA). [Register Online.](#)

July 13. Mercury Effects on Human Health. Seattle, WA. Both organic and elemental mercury create a wide spectrum of human health concerns. Mercury spills cost public and private entities millions of dollars a year in cleanup and health care costs. This series of courses addresses concerns mercury causes by providing participants with a foundation in the science of environmental mercury and presents solutions for mitigating the impacts of this ubiquitous contaminant. [Register Online.](#)

July 14. Mercury Effects on Ecosystems. Seattle, WA. Both organic and elemental mercury create a wide spectrum of ecological concerns. Statewide advisories for mercury in fish exist in dozens of states across the United States. This series of courses addresses concerns mercury cause by providing participants with a foundation in the science of environmental mercury and presents solutions for mitigating the impacts of this ubiquitous contaminant. [Register Online.](#)

July 19 - 20. Writing Policies and Procedures. Salem, OR. Clear, concise, and current policies and procedures save time and money, reduce confusion and liability, and stabilize staff action despite turnover. In this two-day workshop, any staff member will learn to write rules and directions that people can understand and use. The course prepares participants to think through policies and procedures, task outlines more effectively, and write them in a more readable style. Come learn the most popular format for policy and procedure writing in Washington State - adopted by various state agencies, counties, cities, and corporations. [Register Online.](#)

July 21. Erosion and Sediment Control Lead Re-Certification Training. Issaquah, WA. This exciting course examines the most up-to-date techniques in the management of sediment and construction sites. Students who attend will receive re-certification of their Certified Erosion and Sediment Control Lead Training Certification (CESCL) status from the Washington State Department of Ecology. Participants will also benefit from a dynamic interaction between traditional lectures and hands-on exercises. The course covers the essentials of being a certified lead and includes information on how new regulations will impact CESCL job functions. Upon completion, students will know how to simply and confidently comply with federal, state, and local regulatory requirements of stormwater management. [Register Online.](#)

July 26 - 28. EPA's Unified Guidance Statistical Analysis of Groundwater Data. Portland, OR. This course discusses the core elements of the EPA's first major revision to its groundwater statistical guidance in almost 20 years. Presented by the primary author of the revision, this course will showcase new features of the guidance, as well as recommended changes to current statistical practice. In addition to reviewing the design and evaluation of statistical programs for groundwater monitoring, participants will also learn the benefits of checking their assumptions in order to run the most effective statistical tests. [Register Online.](#)

[Back to top](#)

Employment Opportunities

Find full listing at the NEBC Jobs Board – www.nebcjobs.org

Job Title:	Employer:
Construction Project Manager Portland, OR - Full Time	Waste Management
Director of Residential Energy Efficiency Programs Portland, OR - Full Time	ECOS
Intermediate Environmental Engineer Seattle, WA - Full Time	AMEC Earth & Environmental
Lab Analyst	Med-Tox Northwest

<i>Auburn, WA - Full Time</i>	
Mid- and Senior-level Engineers <i>Seattle, WA - Full Time</i>	Integral Consulting Inc.
Professional Licensed Land Surveyor <i>Kellogg, ID - Seasonal - Full Time</i>	TerraGraphics Environmental Engineering, Inc.
Project Manager <i>Issaquah, WA - Full Time</i>	Farallon Consulting, L.L.C.
Renewable Energy Summer Internship <i>Portland, OR - Seasonal - Full Time</i>	Renewable Northwest Project
Sediment Quality Specialist <i>Seattle, WA - Full Time</i>	Hart Crowser, Inc.
Senior Ecological Risk Assessor <i>Annapolis, MD - Full Time</i>	Integral Consulting Inc.
Senior Engineer <i>Issaquah, WA - Full Time</i>	Farallon Consulting, L.L.C.
Toxicologist/Public Health Scientist <i>Annapolis, MD - Full Time</i>	Integral Consulting Inc.

[Back to top.](#)