



## PRESIDENT'S NOTES

**Cleve Steward, WA-AWRA Section President**

As President, I enjoy shining a light on the accomplishments of our Section and its members, and pointing out the many exciting opportunities and challenges that lay before us. With regard to our accomplishments, I want to pay tribute to the tremendous effort and outstanding achievements of our conference organizers, which include most of our current board members as well as several representatives from the British Columbia Chapter of the Canadian Water Resources Association. Next month's (October 4-5, 2007) "Transboundary" conference should rank as one of the best in the 25-year history of the Washington AWRA. Having already set a new record in AWRA membership, we're setting our sights on breaking the conference attendance record. We have an impressive slate of speakers, beautiful and capacious meeting and dinner venues, and a large contingent of Canadian colleagues coming down to attend the conference. Our remaining goal is to publicize the event and fill as many seats as possible.

We would like you to come to the conference. Please read the conference announcement in this newsletter, go to the registration site on AWRA-WA webpage ([www.wa-awra.org](http://www.wa-awra.org)), and REGISTER!

Now, as for opportunities and challenges: the national AWRA has asked the Washington Section if it would like to host the 2009 national conference, which they are proposing to hold either in Seattle, Portland or possibly somewhere else in the Pacific Northwest. This is a decision the board has decided to defer until later this fall, but I want to get the discussion going. We should take pride in the fact that national AWRA asked us to take the lead. They were impressed with the way we ran the 2005 national meeting and with all of the activities we've sponsored since. As usual, however, the planning of a successful conference will require the efforts of several dedicated individuals. If the decision is made to host the national conference, we'll be looking for our members to step up.

Lastly, I want to touch on a topic I'd originally intended to highlight in these Notes. Consider the following quote from this morning's broadcast on NPR: "The City of Kennewick wants to pump Columbia River water underground during the winter and spring when river levels are high, and then use that water in the summer when demand is high and the river is low." My ears pricked up when I heard this news; it seemed symbolic of the innovative problem-solving that defines our profession. Global warming will reduce snow pack in the mountains, making it harder to store and release water when needed. At the same time, the demand for water will continue to grow. The idea of diverting water into a vast underground aquifer that can be tapped later in the summer appears promising and, one hopes, will be environmentally benign. Equally impressive is the State of Washington's willingness to pay \$1 million for a study to see if Kennewick's idea will work.

Last month, the General Accounting Office released a report that pointed out that government agencies are not seriously addressing the effects of climate change in their planning and management efforts. Resource managers, the GAO report stated, "focus first on near-term, required activities, leaving less time for addressing longer-term issues such as climate change." I think the Kennewick example belies this statement. In Washington, we are seeking innovative solutions to the anticipated effects of global warming. Let's roll up our collective sleeves. As water resource professionals, it is our job to provide the information needed to plan for and manage the effects of change – be it natural and anthropogenic in origin – on one of our most precious natural resources – water.

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**November 5, 2007 Board Meeting – All are welcome. Contact Felix Kristanovich for meeting location details at:**

[fkristanovich@anchorenv.com](mailto:fkristanovich@anchorenv.com).

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# Vancouver Island Transmission Reinforcement Project: Canadian & U.S. Environmental Permitting

By Bruce A. Barrett and Melissa Holland, British Columbia Transmission Corporation (BCTC),  
Don Gamble, Golder Associates Ltd., Michelle Dewey, Jones & Stokes Associates

The development, expansion and upgrade of electrical transmission infrastructure are being driven by an increase in electrical demand and ageing transmission infrastructure. In British Columbia (BC), there have not been any new major transmission infrastructure projects developed within the past 20 years. BC's electrical grid is in need of renewal and upgrading to keep pace with a growing demand and expanding economy.

**British Columbia Transmission Corporation:** The British Columbia Transmission Corporation (BCTC) is replacing and upgrading the existing 138 kV overhead transmission lines and an existing submarine cable circuit connecting southern Vancouver Island to the Lower Mainland with new 230 kV infrastructure to serve existing demand and future load growth on Vancouver Island and the southern Gulf Islands. The Vancouver Island Transmission Reinforcement (VITR) Project runs along an existing 67 km right-of-way between Arnott substation in Ladner in the Lower Mainland, crosses the Strait of Georgia, passes over Galiano and Salt Spring Island and connects to Vancouver Island Terminal in North Cowichan on Vancouver Island. In the Strait of Georgia, the Project passes through 12 km of U.S. territorial waters. The Project is currently under construction to meet an October 2008 in-service date.

**Environmental Assessment Review Processes:** The VITR Project was reviewed under the BC Environmental Assessment Act (BCEAA), the Canadian Environmental Assessment Act (CEAA) and at the U.S. federal, state and county levels.

## Canadian Environmental Assessment Processes

BCTC opted into a review of the Project under BCEAA and was subject to review under CEAA. Where a project is reviewed under both BCEAA and CEAA, the Canada-BC Agreement for Environmental Assessment Cooperation provides for harmonization of the environmental assessment processes to avoid uncertainty and duplication, and to facilitate a "one project – one review" approach. Environmental assessment of the VITR Project was conducted in accordance with this Agreement.

BCTC opted into the BCEAA process recognizing that the provincial environmental assessment legislation provides the following advantages:

1. Opportunities for formal notification and consultation procedures and timelines;
2. Coordinated review process with other agencies, stakeholders and jurisdictions, consistent with the spirit of the *Canada-BC Agreement on Environmental Assessment Cooperation* (March 2004);
3. Formal mechanism for coordinated information sharing on major projects with U.S. regulatory agen-

cies and stakeholders consistent with the Memorandum of Understanding (MOU) between the Washington State Department of Ecology (Ecology) and the BC Environmental Assessment Office (BCEAO) (November 2003); and,

4. Opportunities for concurrent application for provincially administered permits and approvals at the time of submitting the Application for an Environmental Assessment Certificate (EAC).

**U.S. Environmental Assessment Processes:** While the harmonized review of the project under BCEAA and CEAA did not include the portion of the Project through U.S. jurisdiction, some of the issues related to the Canadian portion of the Project are similar to the American portion. The Washington State Department of Fish and Wildlife (WDFW) and the Department of Fisheries and Oceans Canada (DFO) worked collaboratively on the review the marine portion of the project. The marine-based approvals issued by the Canadian and U.S. regulatory agencies recognized opportunities for optimizing creation and enhancement of new habitats for fisheries marine resources independent of the administrative boundaries.

As outlined in the MOU between Ecology and the BCEAO (November 2003), there are formal requirements for information sharing and coordination of environmental assessment and reviews for "major projects". These are defined as projects which are "reviewable" under BCEAA and are also subject to Washington State jurisdiction under the *State Environmental Policy Act* (SEPA) for which a Determination of Significance has been made, and thereby requires an Environmental Impact Statement (EIS). In the case of the VITR Project, the lead agency for SEPA, Whatcom County, issued a Mitigated Determination of Non-Significance for the Project.

**Environmental Permitting:** The VITR Project involves both terrestrial and marine components. The international aspect requiring additional U.S. permitting and coordination added to the complexity of the regulatory review processes. The federal review under CEAA required an additional four months to complete, following receipt of the EAC in February 2007.

To begin the construction phase of the Project and to meet an October 2008 in-service date, BCTC required a Certificate of Public Convenience and Necessity (CPCN) from the BC Utilities Commission and an EAC from the Canadian regulatory agencies by February 2007. While it was not essential to have the other permits, approvals and authorizations required for the marine segments of the Project by February 2007, it is critical that the remaining marine-based permits and approvals for the removal of the

existing 138 kV cables in 2007, and installation of the new 230 kV cables in 2008 be secured to keep the construction phase on-schedule.

For the U.S. portion of the project, Whatcom County issued the Shoreline Substantial Development Permit and the Shoreline Conditional Use Permit in June 2007. WDFW subsequently issued a Hydraulic Project Approval in August 2007, on the basis of the Joint Aquatic Resources Permit Application (JARPA), Biological Assessment, Intensive Eelgrass Survey, and Project Description which were submitted to agencies for review in 2006, and finalization of the Habitat Disturbance Minimization and Recovery Plan in June 2007.

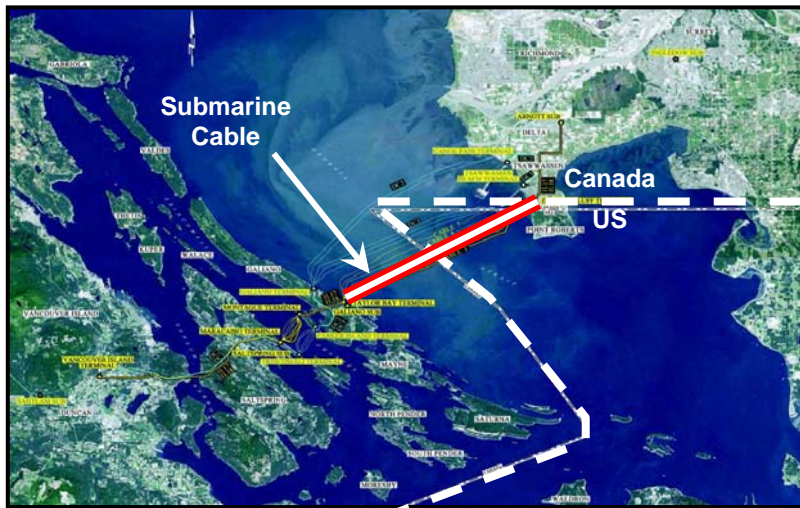
The timing for completion of the Canadian federal and U.S. regulatory reviews of the VITR Project and issuance of the corresponding approvals, posed

The regulatory processes are complicated and poorly defined for undertaking coordinated reviews of potential impacts and for permitting projects which transcend international boundaries. Since the completion of the federal review of the project under CEAA was undertaken following issuance of the EAC by the provincial Ministers in February 2007, this portion of the review of the VITR Project did not benefit from a committed timeframe for receipt of project approvals. In the absence of any legislative-based timelines – such as the *Prescribed Time Limit Regulations* under BCEAA whereby regulatory agencies are required to review and render decisions on the basis of the technical submissions, there are risks of uncertainty for receipt of project approvals, including terms and conditions of project approvals.

Furthermore, although the U.S. and Canadian regulatory reviews of the project were undertaken within the context of the environmental assessment processes and protocols applicable to each jurisdiction, there were no formal mechanisms to ensure a harmonized review to characterize and quantify potential impacts, and to agree upon overall mitigation and compensation strategies. Due to the specialized nature of the marine construction methods of removing and installing submarine cables, combined with the infrequency during which this type of project is undertaken, there was some scepticism expressed by the Canadian and US regulatory agencies regarding the feasibility and methods proposed.

As the engineering details, construction methods, habitat compensation plans and quantification of habitat impacts became better defined, DFO and WDFW worked closely to coordinate their regulatory reviews under their respective legislative mandates. This collaboration enabled most of the project approvals to be issued in time to schedule removals of the existing 138 kV submarine cables during the 2007 in-water works window, and for the installation of the new 230 kV cables in the 2008 in-water works window. The remaining U.S. approvals required for removal of the cables within U.S. jurisdiction west of Roberts Bank are anticipated to be received imminently. As a result, the implementation phase of the VITR Project is progressing on schedule and includes provisions to provide meaningful permanent habitat compensation for the temporary impacts expected to occur during construction.

**Acknowledgements:** *As the environmental consultants for the British Columbia Transmission Corporation (BCTC), Jones & Stokes and Jacques Whitford AXYS were responsible for preparing the environmental assessment studies and applications in the U.S. and Canadian portions of the Vancouver Island Transmission Reinforcement (VITR) Project, respectively. Golder Associates Ltd. acted as the Environmental Coordinator on the Project. ∞*



**VITR Project Location**

some degree of risk and uncertainty for the scheduled removals of the submarine cables during the summer of 2007. Terms and conditions of the permits, including such things as in-water work windows, water quality criteria, environmental monitoring and mitigation requirements, were not known until after BCTC had awarded the cable removal contract.

**Summary:** The success in obtaining project approvals is highly dependent on the quality and integrity of technical assessments, engineering details and construction methodologies, and commitment and willingness of regulatory agencies to consider innovative solutions for the creation and enhancement of habitats which afford the greatest opportunities for biological productivity and diversity. In the case of the VITR Project, the marine-based approvals issued by the Canadian and U.S. regulatory agencies recognized opportunities for optimizing creation and enhancement of new habitats for fisheries marine resources independent of the administrative boundaries.

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"Boundaries don't protect rivers, people do." Brad Arrowsmith, landowner along the Niobrara National Scenic River, Nebraska

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# Saving Puget Sound: An Historic Opportunity?

By John Lombard, Steward & Associates

The Puget Sound Partnership, created by the state legislature earlier this year to plan and coordinate restoration of the Sound, provides an opportunity for bold, creative action to conserve the natural heritage of our region. But only if we, as interested members of the public, make clear that we will settle for nothing less.

Frankly, much of the process that led to the partnership was disappointing. In the report that resulted from that process, the Governor's own scientists state clearly that the strategies she proposes are "not likely to be sufficient to achieve ecosystem goals" — such as long-term recovery of salmon and orcas — given challenges from population growth, climate change, and invasive species.

In general, the Governor recommends continuing what we have been doing to protect and restore our environment, just doing a lot more of it. More of the same is not necessarily a bad thing, but it's not sufficient given the challenges ahead.

**Developing an "Action Agenda":** The legislation that created the partnership calls for development of an "Action Agenda" over the next year, which must consider the entire ecosystem that includes Puget Sound, up to the crests of the Cascade and Olympic mountains. That agenda is to consider the full range of factors crucial to the health of this ecosystem — including competition for land and water between our growing human population and natural systems. It also is to propose funding sources to implement what the Governor's report estimates will require \$9 to \$18 billion between now and 2020.

In these respects, the legislature has called for something other than just more of the same. The Action Agenda is due by September 2008, ensuring that the issues it raises will become part of the Governor's race and legislative races next year.

A Leadership Council chaired by Bill Ruckelshaus, the widely respected leader of salmon recovery efforts in our region, will oversee development and implementation of the agenda. The council will work with two advisory committees, one comprised by scientists, the other comprised by representatives of stakeholders and agencies.

**A long-term, comprehensive approach:** I'm working with a wide variety of interested people across the Puget Sound region to try to ensure the council's recommendations are long-term and comprehensive, and will address the fundamental challenges identified by the Governor's scientists.

Unfortunately, this will entail a shift in vision from the Governor's stated goal of "saving the Sound" by 2020. While that may sound admirable, it mischaracterizes the challenge. As long as millions of us live here and our population continues to grow, the Sound never will be "saved."

In the Central Puget Sound counties of Snohomish, King, and Pierce, the Cascade Land Conservancy has better framed the issue: looking out 100 years, what can we do now to conserve the most important natural features of our region? How can we "grow with grace?"

The main problem with the Conservancy's approach is its geographic limits. Natural systems do not, of course, stop at county lines. Worse, this approach cuts out the most important parts of the region for how Puget Sound as a whole functions as an ecosystem: most of the Skagit River basin, much of the Nisqually River basin, all of the Nooksack River basin, all of the Olympic Peninsula, and most of the Puget Sound shoreline.

It's not that we should ignore the needs of the central Puget Sound area. That's where most of us live. But if we neglect investing in these other places, we will not succeed in conserving Puget Sound as an ecosystem.



**Sockeye**

A comprehensive, long-term approach must consider the entire region as an ecosystem — a connected landscape. To save the orcas, we must save the salmon. To save the salmon, we must save our river systems. To do that, we must save our forest ecosystems, work with agriculture to conserve farmland while restoring key floodplains, and change how we develop in urban, suburban and rural areas.

The prospect is daunting, but we should take heart in two things: one, we have a head start on many of the toughest issues (e.g., growth management, protecting old growth forests, developing integrated salmon recovery plans); and two, we have the legal authority to do this.

By the latter point, I mean that all of our toughest issues ultimately come down to how we manage land and water. Land use laws, most aspects of water rights and water pollution control, stormwater management — these are almost entirely matters of state and local control and individual choice.

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**Economics Are Key:** I believe that the most significant challenges before us are economic. Ultimately, they come down to these three issues:

**1.** We must eliminate, or at least significantly reduce, current subsidies for environmental degradation. This is not just —or even primarily — a matter of subsidies to businesses.

We all withdraw water for free, paying only to have water transported to our taps, stored until we are ready to use it, and cleaned to meet drinking water standards. But collectively, we withdraw more than 250 billion gallons a year from our streams and aquifers in the Puget Sound region, with profound consequences for fish and wildlife.

The gasoline tax that we pay does not even cover the full cost of constructing and maintaining the road system — especially at the local level, where nearly half of all costs are paid with general taxes that have nothing to do with one's use of the roads. Yet our roads and our cars are primary causes of air and water pollution and habitat fragmentation.

New developments pay little to no mitigation for cumulative impacts on the environment. Factories, treatment plants and others are given permits to discharge pollutants into our air and water, with no charge based on the ecological consequences.

Conceptually, addressing all of these misplaced subsidies with targeted taxes or fees is not difficult. It would be an enormous challenge politically. But reasonable rates to address the subsidies above easily could raise \$1 billion a year in our region — more than enough not just for an ambitious conservation program but also to sweeten the proposal by reducing property or other taxes substantially.

**2.** We must accept a substantial transfer of wealth from urban areas to ecologically more important rural areas. Everyone would pay the sort of taxes just described. We all use water. Nearly all of us drive. But taken as a whole, urban taxpayers far outnumber rural taxpayers, while investments in ecological conservation must target rural areas, where the large majority of our best habitat remains.

I live on a tributary to Thornton Creek in north Seattle. I am a past president and active supporter of Thornton Creek Alliance. I am NOT saying that we should “write off” urban natural areas. But we should understand the limitations of investments in those areas and set reasonable goals for them.

The current project to “daylight” Thornton Creek on the south lot of Northgate and to improve water quality there will cost more than \$10 million. I support this project, but primarily for its community development benefits. If the pot of money paying for it could be used to best serve Puget Sound as an ecosystem, I would shift that money immediately to the lower Skagit River, where it could make some real headway in the tragic conflict between farmers and environmentalists, who I believe could be on the same side with the right resources.

The science is clear that urban areas cannot support the diversity and abundance of native fish and wildlife that rural areas can (if that obvious point even needs documenting). We still may invest in urban natural areas to improve our quality of life and minimize the harm urban areas do to larger ecosystems. But we must invest in rural areas if we are to save our natural heritage in this region.

**3.** We must develop new ways to compensate property owners for ecological services that we all receive from their land. In the state of Washington, the state Supreme Court has ruled that regulations cannot place an “undue burden” on individual property owners to meet societal goals. This goes beyond the U.S. Supreme Court's requirement to compensate landowners if regulations take all reasonable economic use from their property.



**Killer Whale “L-41”.**

I was glad that I-933, last year's property rights initiative, lost at the polls, but I do agree with proponents that the fundamental issue is a matter of fairness. It's also a matter of practicality: when forestry and agriculture are not economically viable, land is converted to suburban or rural development, which typically is much worse for the environment.

Western Washington lost 648,000 acres (more than 1,000 square miles) of timberland to development between 1978 and 2001. This trend may well worsen in the years ahead.

Given our increasing population, some such losses are inevitable. But the scale of these losses and their location (driven by economics, with little regard to ecological impact) will overwhelm efforts to conserve our natural heritage, if left unchecked. We must change the economics of this land to support forestry and agriculture where it matters most ecologically.

Governor Gregoire appointed the group that ultimately recommended the partnership, and called for a “bold” proposal. That opportunity is still before us.

John F. Kennedy once asked, “If not us, who? If not now, when?” Considering all of the Puget Sound region's advantages in beauty, wealth, natural resiliency, scientific knowledge and history of environmental concern, when it comes to conserving natural systems in a developed area, I would add, “If not here, where?”



**CWRA ACRH**  
Canadian Water Resources Association  
Association Canadienne des Ressources Hydriques  
B.C. Branch

## 2007 AWRA-WA Annual Conference: Transboundary Water Resources of Washington State

The Washington Section of the American Water Resource Association, in cooperation with the British Columbia Branch of the Canadian Water Resources Association, is pleased to present the joint conference on October 4<sup>th</sup> and 5<sup>th</sup>, 2007. The conference will be held at the Museum of History and Industry (MOHAI) in Seattle, Washington. On-line or mail-in registration information is available at: [www.wa-awra.org](http://www.wa-awra.org).

### THURSDAY, OCTOBER 4

*Registration starts at 7:30 AM. Conference Welcome and Keynote Address 8:15 AM. Day 1 Sessions end at 4:00 PM.*

**Keynote Speaker: Honourable Barry Penner, Minister of Environment, British Columbia**

**Session 1 - Stormwater Management and Low Impact Development:** What effects have technology improvements and increasingly stringent stormwater / rainwater management requirements over the past 20 years had on the water quality of receiving waters? How will those resources be affected by burgeoning population growth and development in the future? And what lessons can Washington State and British Columbia learn from each other as they strive to minimize the impacts of stormwater runoff? In this session **Kim Stephens**, P.Eng., Program Coordinator, Water Sustainability Action Plan for British Columbia, **Gary Minton**, Ph.D., Resource Planning Associates, and **Ed O'Brien**, Ecology Water Quality Program discuss and contrast approaches to stormwater management taken on both sides of the border.

**Session 2 - Liquid Waste Management: Going with the Flow?** It has been argued that improvements in basic sanitation, including the collection, processing and disposal of human sewage, has been one of civilization's most important advances in public health management. And yet, most of us possess scant knowledge of our existing sewage systems and the measures required to keep them functioning reliably. In this session, **Dwayne Kalyynchuk**, P.Eng., Environmental Services General Manager, Capital Regional District, Victoria, B.C., **Stan Hummel**, King County Design Manager for the Brightwater Treatment Plant, and **Albert van Roodselaar**, Ph.D., P.Eng., Division Manager, Utility Analysis and Environmental Management, Metro Vancouver will examine different perspectives and approaches to managing liquid waste in the Pacific Northwest, with emphasis on reducing impacts to the receiving water environment.

### Session 3 - Climate Change: What Changes Can We Expect and How Should We React?

Change is inevitable, as the saying goes, but until recently we have continued assuming that the "past predicts the future" without regard to the effects of global climate change on regional water resources, policy and infrastructure. Fortunately, evidence for human-induced changes in climate and climate-linked processes is now widely accepted by the public and those responsible for managing public infrastructure. What effects do global warming and related processes have on this region's water resources, and how can we prevent or mitigate their harmful effects? **Kurt Unger**, Washington Department of Ecology, **Stewart Cohen**, Ph.D., Senior Researcher, Adaptation Impacts Research Division, Institute for Resources, Environment and Sustainability, Environment Canada, and **Philip Mote**, PhD, University of Washington Climate Impacts Group Research Scientist will discuss water resource policy, planning, and impacts in the context of ongoing and future climate change.

### Session 4 - Case Studies I: Changing Conditions, Changing Designs:

Building on Session 3, this session presents a series of ongoing, high-profile case studies of how our evolving knowledge of changing design conditions, including climate change, is informing our water management decisions and actions. In this session **Neil Peters**, P.Eng, Inspector of Dykes, Ministry of Environment, Province of British Columbia, **Paul Fleming**, Seattle Public Utilities, and **Stan Miller**, Spokane County (retired) will examine three case studies that consider changing design conditions.

*Evening Social Starts at 5:00 PM.*

*Dinner (Odyssey Room at Bell harbor Conference Center, downtown Seattle) starts at 6:30 PM.*

*Dinner Guest Speaker: David Dicks, Executive Director of the Puget Sound Partnership.*

### FRIDAY, OCTOBER 5, 2007

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Registration starts at 7:30 AM. Conference Welcome and Keynote Address 8:15 AM. Day 2 Sessions end at 3:00 PM.

AWRA Section Meeting Starts 3:15 PM.

**Keynote Speaker: Jay Manning, Director, Washington Department of Ecology**

**Session 5 - Managing the Columbia River for the Mutual Benefit of the US and Canada:** In recent decades, the diversion of water for agriculture and municipal water supply, and the construction and operation of water storage and hydroelectric dams have dramatically altered the hydrology of the Columbia River and its tributaries. These developments have contributed to the marked reduction of some salmon runs and extirpation of others. Various agreements have been struck between the U.S. and Canada to manage the Columbia system for the benefit of several Endangered Species Act (ESA)-listed species. Recently, Canada proposed altering operations at several British Columbia reservoirs to enable new summertime water uses and as "drought insurance" for interruptible water rights. In this session **Rachael Paschal Osborn**, Acting Executive Director of the Center for Environmental Law and Policy, **Derik Sandison**, Washington Department of Ecology, **Kindy Gosal**, Columbia Basin Trust Canada,

and **Charles Hudson**, Columbia Inter-river Tribal Fish Commission discuss water management in the Columbia River basin in light of ESA constraints and recent reservoir storage and release proposals.

**Session 6 - Case Studies II: Tying it all Together:** How have ongoing trends in water availability and evolving water policy combined to affect water allocation, use and project design? How are land management practices impacting water quality? Are we meeting our water supply and resource protection goals? In this session **Sandra Brown**, Ph.D., Adjunct Professor, Institute for Resources, Environment and Sustainability, University of British Columbia, **Alan Hamlet**, University of Washington, and **Guy Gregory**, Washington Department of Ecology will discuss case studies and projects that confront these issues.

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"The bad news is that if the drought keeps up, within a few years we'll all be drinking reclaimed sewer water. The good news is that there won't be enough to go around." Bill Miller

"The definition of low-value crops is crops you're growing with water that somebody else wants." Andy Horne

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## Announcing the 1st Annual AWRA Washington State Chapter Photograph Contest

The photograph contest will be conducted in conjunction with the Washington Section of the American Water Resources Association annual conference on October 4-5, 2007 (held this year in cooperation with the British Columbia Branch of the Canadian Water Resource Association). We'd like to see your best photograph submitted in the following categories:

- Water in the West
- Humans and Water (includes infrastructure)
- Water and Wildlife

Recognition will be given for the top three overall winners. First Prize - \$100, Second Prize - \$50, Third Prize - complimentary membership in the WA State Section (or British Columbia Branch for Canadian residents) or to an upcoming WA-AWRA dinner meeting. The best submission in each category will also win a complimentary admission to an upcoming WA-AWRA dinner meeting.

Submissions are due by **September 27, 2008** via email to Carl Einberger at:

[ceinberger@geomatrix.com](mailto:ceinberger@geomatrix.com).

Guidelines:

- Photos must be at least 300 dpi resolution, with a 5 MB limit per photo.
- One photo per e-mail in jpg file format (limit of 5 submittals per person).
- The subject heading of the email should be AWRA Photo Contest Entry.
- In the submission e-mail, include your full name, e-mail address, phone number, address, the submittal category, and a short caption.
- Each photo file should have a unique name followed by your initials.

By submitting a photograph, you affirm that you hold the primary rights to the photograph and provide WA-AWRA unlimited reprint permission.

Judging will be conducted by two UW student chapter members and two WA state section board members. Contact Carl at (206) 755-9934 or [ceinberger@geomatrix.com](mailto:ceinberger@geomatrix.com) if you have questions. We look forward to seeing your beautiful photographs!

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"Water is the most critical resource issue of our lifetime and our children's lifetime. The health of our waters is the principal measure of how we live on the land." - Luna Leopold, Hydrologist

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## Basin-Level Sponsors of the 2007 WA-AWRA/BC-CWRA Transboundary Conference:



*Thank you!*

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## Corporate Sponsorship Opportunity for the 2007 AWRA- WA Annual Conference

We invite you to support the WA-AWRA and BC-CWRA by making a financial contribution to this year's conference. Government, corporate and individual contributors are welcome. By sponsoring, you will earn the recognition and gratitude of water resource professionals throughout our state and province. To participate, please go to our website [www.wa-awra.org](http://www.wa-awra.org) for the corporate sponsorship form. Sponsorship levels are:

<b>BASIN \$1,000</b>	<ul style="list-style-type: none"> <li>• Your corporate poster (2'x 3') displayed in museum foyer during registration, lunch and breaks</li> <li>• Prominent recognition of your firm's name and logo on the WA-AWRA website</li> <li>• Verbal recognition of your firm's support during conference plenary sessions</li> <li>• Prominent recognition of your firm's support in the conference program packet</li> <li>• Acknowledgement of your firm's support in the newsletter following the conference</li> <li>• One complimentary 2007 WA-AWRA Annual Conference registration (\$200 value)</li> </ul>
<b>WATERSHED \$750</b>	<ul style="list-style-type: none"> <li>• Recognition of your firm's name and logo on the WA-AWRA website</li> <li>• Recognition of your firm's support in the conference program packet</li> <li>• Acknowledgement of your firm's support in the newsletter following the conference</li> <li>• Two 2008 WA-AWRA memberships (\$50 value)</li> </ul>
<b>STREAM \$500</b>	<ul style="list-style-type: none"> <li>• Recognition of your firm's support in the conference program packet</li> <li>• Acknowledgement of your firm's support in the newsletter following the conference</li> <li>• One 2008 WA-AWRA membership (\$25 value) for a member of your firm</li> <li>• One complimentary registration for an AWRA Washington Section dinner meeting held in 2008</li> </ul>
<b>REACH \$250</b>	<ul style="list-style-type: none"> <li>• Recognition of your firm's support in the conference program packet</li> <li>• Acknowledgement of your firm's support in the newsletter following the conference</li> </ul>

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# WA-AWRA 2007 Annual Conference Transboundary Water Resources of Washington State and British Columbia Conference Social and Dinner

Featuring David Dicks, Executive Director of  
Washington State's Puget Sound Partnership

October 4<sup>th</sup>, 2007; 5-9 PM

**Odyssey Maritime Discovery Center**  
2205 Alaskan Way, Pier 66 | Seattle, WA

## Dinner Overview

The Washington Section of the American Water Resources Association (WA-AWRA) and the British Columbia Chapter of the Canadian Water Resources Association are pleased to host a social and evening dinner for conference attendees and other interested parties.

Join us for an evening of socializing and learning about Washington's efforts to restore Puget Sound at the beautiful Odyssey Maritime Discovery Center on Seattle's waterfront. The Center celebrates the Northwest's maritime character through interactive exhibits highlighting the natural and economic resources of Puget Sound.

David Dicks, the newly appointed Executive Director of the Puget Sound Partnership, will speak about the effort to restore Puget Sound.

David is an attorney specializing in environmental law and has worked on many efforts to protect endangered species, including the Puget Sound Chinook Recovery Plan. He also played a significant

Puget Sound Partnership commission and worked extensively with the Legislature and Governor to pass the new Partnership's enabling legislation.

## Registration Information

The dinner is complimentary for all two-day conference attendees. However, we have reserved a limited number of dinner tickets available on a first come, first serve basis for individuals who would like to attend the dinner, but not the conference. Separate tickets can be purchased for the dinner for \$50. The dinner includes access to all of the interactive exhibits of the Odyssey Discovery Center.

## Driving Directions and Parking

From Interstate 5 or Interstate 90, take the Safeco Field exit. Turn right onto Fourth Avenue South, and right again onto Royal Brougham Street. Go several blocks and drive under the elevated highway (the Alaskan Way Viaduct). Turn right on to Alaskan Way, which is the surface street just beyond the viaduct. Drive north on Alaskan Way

about 15 blocks until you see the second overhead pedestrian bridge. This is Pier 66, the Bell Street Pier, site of Odyssey.

Discounted parking is available at the Bell Street Garage located under the Seattle Art Institute and the World Trade Center East. Enter from Wall Street or from Elliott Avenue and take the pedestrian skybridge over Alaskan Way to the Bell Street Pier and Odyssey Discovery Center.

To register for the conference and/or the dinner, please visit our website:

[www.wa-awra.org](http://www.wa-awra.org)



role in the creation and deliberations of the original

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# WA-AWRA 2007 Annual Conference Transboundary Water Resources of Washington State and British Columbia

## Conference Registration

To register for the conference by mail, please complete the following form and mail it to the address listed below.

### For registrations mailed on or before September 29, 2007:

- 2-day registration, including lunches, dinner and 2008 State Section membership \$250
- 1-day registration (either day), including lunch and 2008 State Section membership \$125
- Student 2-day registration, including lunches, dinner and 2008 State Section Membership \$45
- Thursday night social and dinner (if purchased separately) \$50

### For registrations mailed after September 29, 2007 (including walk-up registrations):

- 2-day registration, including lunches, dinner and 2008 State Section membership \$300
- 1-day registration (either day), including lunch and 2008 State Section membership \$150
- Student 2-day registration, including lunches, dinner and 2008 State Section Membership \$60
- Thursday night social and dinner (if purchased separately) \$50

Name \_\_\_\_\_ Title \_\_\_\_\_

Affiliation \_\_\_\_\_

If registering as a student, you must be currently enrolled:

Name of School \_\_\_\_\_ Student ID # \_\_\_\_\_

Phone (\_\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_

E-Mail \_\_\_\_\_@\_\_\_\_\_

Please check here if you do not want to be on the list of attendees provided at registration.

**Checks.** Make payable to "AWRA Washington" or Visit our website [www.wa-awra.org](http://www.wa-awra.org) for other payment options.

Full refunds, less a \$20 administration fee, will be provided if requested in writing prior to September 29, 2007. No refunds will be given following this date.

Please mail checks by Saturday, September 29, 2007 to:

WA-AWRA  
P.O. Box 2102  
Seattle, WA 98111-2102

For questions regarding the conference, contact the conference registrar, Jamie Morin, by phone: 206.838.7654, or email: [waawra@gmail.com](mailto:waawra@gmail.com)

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# Columbia River Basin Storage Options

From: [http://www.ecy.wa.gov/programs/wr/cwp/crbwmp\\_mainstem\\_storage.html](http://www.ecy.wa.gov/programs/wr/cwp/crbwmp_mainstem_storage.html)

The Department of Ecology (Ecology) is looking at the feasibility of building new water storage facilities along the Columbia River. By law, storage funded from the Columbia River Basin Water Supply Development Account shall be allocated two thirds for out-of-stream (e.g. agriculture, industrial, municipal) uses and one third will remain instream to enhance river flows.

The mainstem off-channel storage appraisal study was conducted as element of a [Memorandum of Understanding \(MOU\)](#) entered into in 2004 by the Bureau of Reclamation (Reclamation), the State of Washington, and the three Columbia Basin irrigation districts. The MOU is intended to promote improved water management of the Columbia River and Columbia Basin. As part of Sections 6 of the MOU, Reclamation and the State committed to conducting an appraisal level study of potential Columbia River mainstem off-channel storage sites.

The MOU further commits the state and the participating irrigation districts to request federal legislation to authorize and fund a mainstem storage program, including feasibility studies by Reclamation of proposed storage projects, if warranted based on results of the appraisal study. Feasibility studies involve generation and collection of detailed, site specific data concerning a project and reasonable alternatives. Feasibility studies are usually integrated with National Environmental Policy Act (NEPA) compliance, potentially including development of a NEPA EIS.

The appraisal study was preceded by a review of existing reports and documents regarding 21 potential storage sites near the Columbia River mainstem. Eleven sites were originally considered for further review. Of the 11 sites, five sites were eliminated from consideration because they:

- Were located too far downstream in the Columbia River to be integrated into the operation of Reclamation's Columbia Basin Project;
- Were too small; or,
- Represented a high risk of failure or excessive leakage.

Two additional sites located on the Colville Reservation were dropped from further consideration at the request of the Confederation Tribes of the Colville Reservation. As a result, the appraisal study was initiated with four potential sites: Foster Coulee in Douglas County, Hawk Creek in Lincoln County, and Sand Hollow and Crab Creek in Grant County. Foster Coulee was eliminated from consideration early in the study due to concerns over failure risk.

The appraisal study evaluated whether any of the sites appear capable of safely providing a minimum of 1,000,000 acre-feet of active storage. It also included a preliminary assessment of the potential impacts of reservoir development on the built and natural environment, including impacts to cultural resources. The appraisal study determined that the Crab Creek site represents a potentially viable reservoir location. This site appears to be preferable to either the Sand Hollow or Hawk Creek sites based on both cost and technical feasibility criteria. However, construction of a facility at the lower Crab Creek site would have potential significant environmental, socioeconomic, and cultural impacts that would need to be thoroughly evaluated in an EIS.

Ecology, Reclamation, and the Columbia Basin irrigation districts will review the study report and will consult with stakeholders, agencies, and entities, including the Columbia River Basin Policy Advisory Group, prior to decision making as to whether to request from Congress authorization and funding for a feasibility study and EIS. ~~~

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From: <http://www.juliantrubin.com/kidsquotes.html>

"I am not sure how clouds get formed. But the clouds know how to do it, and that is the important thing."

"Water vapor gets together in a cloud. When it is big enough to be called a drop, it does."

"Humidity is the experience of looking for air and finding water. We keep track of the humidity in the air so we won't drown when we breathe."

"Rain is saved up in cloud banks."

"Rain is often known as soft water, oppositely known as hail."

"Some people can tell what time it is by looking at the sun. But I have never been able to make out the numbers."

"Rainbows are just to look at, not to really understand."

"You can listen to thunder after lightning and tell how close you came to getting hit. If you don't hear it you got hit, so never mind."

"The four seasons are salt, pepper, mustard and vinegar."

"There are 26 vitamins in all, but some of the letters are yet to be discovered. Finding them all means living forever."

"The spinal column is a long bunch of bones. The head sits on the top and you sit on the bottom."

"In spring, the salmon swim upstream to spoon."

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# Washington Section AWRA Board of Director Elections

***Immediately following the AWRA Washington State Conference on Friday, October 5, the AWRA Washington Section will convene its annual meeting and conduct elections for the 2008 Board of Directors.***

***The Board of Directors consists of five to fifteen directors, not including the past president. All members are welcome to attend the annual meeting and to nominate other candidates.***

***The 2007 Board of Directors presents below thirteen candidates for the 2008 Board of Directors.***

***There are two positions for which no candidates have been nominated. Nominations are may be made at the election:***

**Jami Carter** – Jami is an environmental scientist with Golder Associates. Her experience includes watershed planning, basin forecasting, updating critical area ordinances, water right applications, well inventories, water quality monitoring, litigation support, and environmental due diligence. Jami has a B.A. in Chemistry from Central Washington University and is currently pursuing a Masters in Urban Planning from the University of Washington. Jami is on the AWRA newsletter committee and helps maintain the section's website. Jami and her husband Eric enjoy trail riding and horse camping with their three horses and three cattle dogs.

**Carl Einberger** - Carl is a Senior Hydrogeologist and Water Resources Manager with Geomatrix Consultants in Seattle. He has been based in Seattle for the last 18 years, where he has worked as a consultant on multi-disciplinary environmental projects including water rights, water supply development, well rehabilitation, hydrology, abandoned and proposed mine investigations, contaminated site remediation and redevelopment, storm water management, and numerical groundwater and surface water modeling. Carl has a B.S. in Geological Engineering from the Colorado School of Mines, and an M.S. in Geology from the University of Wisconsin-Madison, and is a licensed hydrogeologist and engineering geologist in Washington. Carl is an avid photographer, hiker, and telemark skier, with two children who take pride in passing him on the ski runs.

**Steven Hughes** - Steve is a senior hydrogeologist in the Seattle office of URS. For the last 8 years he has managed the remedial investigation/feasibility study of mining impacts on the Coeur d'Alene River Basin. During 27 years of consulting, his work has included water resource studies, well-head protection plans, watershed studies, water supply source exploration/development studies, well rehabilitation, in-situ uranium exploration, open-pit mining, contaminated site studies, and environmental impact statements. He has a BS in geology for the University of Wisconsin-Milwaukee and is a licensed geologist in Pennsylvania and Washington and a licensed hydrogeologist in Washington. Steve and his wife Trish enjoy their three golden retrievers, tennis and wine.

**Jacque Klug**- Jacque is a Watershed Lead with the Department of Ecology. Her experience includes watershed planning, water rights administration, and policy development and analysis. She has a B.A. in Environmental Science from Duke University and a M.S. in Forest Resources from the University of Washington College of Forest Resources. In her leisure time, she enjoys backpacking, skiing, running, and restoring her Craftsman bungalow.

**Felix Kristanovich** - Felix is a senior water resources engineer with Anchor Environmental in Kirkland, Washington. He has over 18 years of professional experience in the Pacific Northwest and California working on numerous watershed analysis and streamflow restoration projects, water quality monitoring programs, environmental impact studies, hydrologic field investigations, floodplain analysis, and design and modeling of storm water systems. Some of his recent projects include re-development of the Port of Seattle storm water master plan for the SeaTac Third Runway, restoration at Skagit River Delta, Nisqually Wildlife Refuge, and Chinook River/Estuary in Washington. He designed and implemented several streamflow stabilization projects, using biotechnical erosion protection measures, and evaluated innovative water quality treatments for transportation agencies, including WSDOT. Felix is actively involved in several engineering societies, including AWRA, where he organized technical field trips during the 2005 AWRA Conference in Seattle. He currently serves on the Dinner Committee of the AWRA Washington Section. Felix enjoys backpacking, hiking, and telemark skiing in Washington Mountains, and sea kayaking with his wife around Puget Sound and in Alaska.

**Stan Miller** – Stan is semi-retired, and currently doing water resources consulting under the business name of Inland Northwest Water Resources. Prior to venturing into retirement, Stan held the position of Program Manager for Spokane County's Water Resources Section in the County Utilities Division of the Public Works Department for over 20 years. The prime focus of Water Resources is the regional aquifer protection program. In that capacity he worked toward integrating the groundwater protection efforts of all municipalities and water purveyors using the Spokane Valley-Rathdrum Prairie Aquifer. In addition to working on this program at the administrative level, Stan has developed technical information and conducted local studies on the potential

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impacts of storm water infiltration on ground water quality and the interaction of the Spokane River and the Spokane Valley Aquifer. Away from work, Stan enjoys canoeing, backpacking, running, and working on the restoration of a turn-of-the-century home.

**Jamie Morin** – Jamie is an attorney and a member of Mentor Law Group, PLLC, where her practice emphasizes water law, water utility regulation and related natural resource issues. Jamie assists clients with acquisition, transfer, and adjudication of water rights, compliance with public water system regulations, environmental review under SEPA and NEPA, and compliance with various state and federal environmental regulations. Prior to obtaining her law degree, Jamie worked as a policy consultant in Olympia, Washington, focusing on water resource management and policy, public water utility and local government issues. Jamie lives a truly water dependent life having just purchased a classic wooden yacht in which she hopes to spend more time on the water than on land.

**Beth Peterson** – Biosketch to be provided in conference materials.

**Chris Pitre** – Chris is an associate and senior water resources project manager at Golder Associates. He has been involved with the Washington State section of the AWRA since 1997 when he co-chaired the annual conference. He established the section's web site and has been newsletter editor for several years. Chris has undergraduate degrees in geology and chemistry, and a graduate degree in hydrogeology. He has worked with Washington's water resources since 1992, with an emphasis on watershed planning, integrated water resources management, water rights and policy, water supply management, and Aquifer Storage and Recovery (ASR). He is a licensed hydrogeologist in Washington and regularly lectures at the University of Washington. Family is the focus of Chris's life with his wife, and enjoying the thrills of growing with his 8-year old son and 4-year old daughter.

**Tom Ring** - Tom is a hydrogeologist with the Water Resources Program of the Yakama Nation. He has held this position since 1990 and, in that role, has worked on a variety of projects involving groundwater and surface water quantity and quality, water rights, irrigation and fisheries issues and planning for future water needs. Previously he worked for the Water Resources Program at the Washington Department of Ecology. Tom has Bachelors and Masters of Science degrees in geology from Central Washington University and Northern Arizona University respectively. He has taught geology and hydrogeology classes at Central Washington University and is a licensed geologist and hydrogeologist in Washington State. When not working, he enjoys hiking, climbing, and skiing in the mountains of the west.

**Cleve Steward** - Cleve Steward is a fisheries scientist with over 25 years experience and education in salmon and trout ecology and management, both as a government agency employee and as a consulting biologist. His firm – Steward and Associates – provides technical assistance in analyzing environmental impacts, complying with governmental regulations, and resolving conflicts involving fisheries and aquatic resources, with emphasis on water management, dams, watershed analysis, habitat restoration, and fisheries research and management. Cleve serves as scientific advisor to federal, tribal and state agencies engaged in the recovery of threatened and endangered salmon and steelhead in the Willamette and Lower Columbia Rivers. He is also co-director of the Sustainable Fisheries Foundation, a non-profit organization dedicated to the conservation and wise use of our fisheries resources. As an AWRA board member, Cleve was Technical Program Chair for the 2005 National Conference and currently serves as Section Treasurer. He enjoys all the usual things one does with fish.

**Peter Sturtevant** – Pete is a Senior Water Resources Engineer at CH2M Hill in Bellevue. He works primarily on drainage and stream restoration projects. He has 30 years of experience in the fields of water resources and environmental impact assessment that has included water supply studies, water quality assessments, flood control, wastewater and water reuse projects. More recently his work has centered on stream stabilization and restoration. A proud Husky alumnus, Pete enjoys hiking, canoeing, sailing, and other water related activities in the Great Northwest and he bicycled across North America in 2002. Pete co-chaired the AWRA National Conference, in 2005 in Seattle and has also served as past chapter president.

**Mona Thomason** – Mona has worked for the U.S. Army Corps of Engineers since 1985. She is currently the chief of the Planning Branch for the Seattle District, overseeing the district's water resource development program. She supervises planners, project managers, economists, biologists, archeologists, and other staff. Projects include ecosystem restoration, flood damage reduction, navigation, and other water-related purposes. Before coming to the Seattle District, she worked as an economist at the Corps' Institute for Water Resources in the Washington D.C. area, and Los Angeles, Mobile, and Portland Districts. Mona received a B.S. in Economics from Lewis and Clark College in Portland, Oregon. In her spare time, Mona reads, gardens, does home improvement projects, and enjoys her daughters' sports activities.☺

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“One day, someone showed me a glass of water that was half full. And he said, ‘Is it half full or half empty?’ So I drank the water. No more problem.” –Alexander Jodorowsky

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# 2007-2008 Student Rod Sakrison Memorial Fellowship

The Washington State Section of the American Water Resources Association announces the  
2007-08 Student Fellowship Awards.

Several changes in procedure have been made for this year's award. The 2007 state conference is a joint effort of the Washington Section and the BC section of the Canadian Water Resources Association. This conference is scheduled for the first week in October, too early in the fall for the conference to serve as the venue for the Student Fellowship award presentation. Because of this, the Washington Section Board opted to move the award presentation to a special student event to be held later in the fall. As a consequence, the application deadline for 2007 is scheduled for **October 30, 2007**, a month later than the regular deadline.

Further information about the fellowship and an application form are available on the state section website ([www.wa-awra.org](http://www.wa-awra.org)) or by contacting Stan Miller at [samillerh2o@comcast.net](mailto:samillerh2o@comcast.net). The fellowship award consists of a \$1,500 cash award and one-year membership in both the state and national associations.

The national association membership includes a subscription to the Journal of the American Water Resources Association. Winners also receive a paid registration to the state conference. Two awards are presented each year. One fellowship goes to a graduate student enrolled in a multidisciplinary program of study in water resources at any college or university in Washington. The other goes to a member of an AWRA Student Section enrolled in a similar program at the university sponsoring the section.

Earlier this year, long time state section member and two time past president of the State Association Rod Sakrison passed away. Rod was instrumental in establishing the University of Washington AWRA Student Chapter. In recognition of his effort to increase student involvement in AWRA, the AWRA State Section Board unanimously approved to rename the award presented to the student section winner as the Rod Sakrison Memorial Fellowship Award.☺

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**Excerpts from WDFW Weekender** (<http://wdfw.wa.gov/do/weekendr/weekendr.htm>):

**South Sound/Olympic Peninsula** - The rain has created some good fishing conditions in other area rivers as well, said Scott Barbour, WDFW fish biologist. "With the rivers dropping back into shape, we're seeing some decent summer steelhead and silvers in the Hoh and Bogachiel rivers on the Olympic Peninsula," he said. "People are also catching some nice summer steelhead on the Wynoochee River in Grays Harbor." Recreational crabbers who were licensed to fish for crab in Puget Sound are reminded they have until Sept. 15 to report their summer's catch to WDFW — whether or not they fished or were successful in catching Dungeness crab. Crabbers who file their catch reports by the deadline will be entered in a drawing for one of 10 free 2008 combination fishing licenses, which allow the holder to fish for a variety of freshwater and saltwater species.

**North Puget Sound** -The coonstripe and pink shrimp fisheries are open in the region, and shrimpers can fish in marine areas 8-1 (Deception Pass, Hope Island and Skagit Bay), 8-2 (Port Susan/Port Gardner), 9 and the northern and central portion of Marine Area 7 (San Juan Islands). For more information on shrimp fisheries check WDFW's website at: <http://www.wdfw.wa.gov/fish/shelfish/shrimpreg/shrimpiindex.shtml>.

**South Central Washington** - WDFW fish biologist Joe Hymer reports Columbia River chinook salmon fishing in the Hanford Reach near the Tri-Cities is still on the slow side. Fish passage over McNary Dam totaled 5,105 adult and 984 jack fall chinook through Aug. 31. "Incidental steelhead catches at Ringold are still on the high side with reports of bright fall chinook being seen the last few days," he said. "River flows have been high during the week with a drop on weekends, making it tough on Ringold bank anglers. Traditionally salmon fishing should start to pick up by the second week in September."

**Eastern Washington** - Now is good time to catch trout and other fish, since fishing pressure is down considerably after Labor Day and water temperatures begin to moderate in lakes and streams, said Curt Vail, WDFW northeast district fish biologist. "Some waters that have been productive — fishing at 30 feet or less — include Deep, Loon and Waitts lakes in Stevens County and Curlew Lake in Ferry County," he said. "Smaller waters should also start to become active, fish-wise, in September."

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**The Board of AWRA WA seeks to provide through this newsletter a full range of views on water resource issues. Opinions expressed in this newsletter do not necessarily reflect the views of individual Board members, the section membership, or their employers.**

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## Upcoming Events

**September 17, 2007.** Salmon Homecoming Forum. Seattle Parks Golden Gardens Bathhouse [www.salmonhomecoming.com](http://www.salmonhomecoming.com)

**September 22, 2007.** People for Puget Sound. Passport to the Water: Stories of Bellingham Bay. Jetty Island, Bellingham [www.pugetsound.org/index](http://www.pugetsound.org/index).

**October 4-5, 2007** Transboundary Water Resources of Washington State and British Columbia. Museum of History and Industry, Seattle, WA [www.wa-awra.org](http://www.wa-awra.org).

**November 6-9, 2007.** Pacific Salmonid Recovery Conference 2007, Seattle. [http://www.nwetc.org/bio-500\\_11-07\\_seattle.htm](http://www.nwetc.org/bio-500_11-07_seattle.htm)

**November 12-15, 2007.** National AWRA Conference. Albuquerque, New Mexico. <http://Awra.org>.

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## NEW MEMBERS

**Dale Anderson**, David Evans and Associates  
**Andy Brastad**, Clallam County Environmental Health  
**Kevin Buckley**, Snoqualmie Tribe  
**Jim Casey**, Peninsula Daily News  
**Ken Charm**, AMEC Earth and Environmental  
**Scott Chitwood**, Jamestown S'Klallam Tribe  
**Raymond Chung**, CH2M Hill  
**Virginia Clark**, DRMT Exec  
**Peggy Clifford**, Department of Ecology  
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**Bruce Howard**, Avista Utilities  
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## AWRA-WA BOARD MEMBERS

President: **Cleve Steward**  
(360) 862-1255

[csteward@stewardandassociates.com](mailto:csteward@stewardandassociates.com)

Vice President: **Jacqueline Klug**  
(425) 649-7124  
[jklu461@ecy.wa.gov](mailto:jklu461@ecy.wa.gov)

Treasurer: **Jamie Morin**  
(206) 493-2323  
[morin@mentorlaw.com](mailto:morin@mentorlaw.com)

Secretary: **Felix Kristanovich**  
(425) 827-3243  
[fkristanovich@anchorenv.com](mailto:fkristanovich@anchorenv.com)

Editor: **Chris Pitre**  
(206) 267-1166  
[cpitre@golder.com](mailto:cpitre@golder.com)

Past-President: **Mona Thompson**  
(206) 764-3600  
[mona.jean@comcast.net](mailto:mona.jean@comcast.net)

Director: **Tony Dubin**  
(206) 749-2266  
[tdubin@brwncaled.com](mailto:tdubin@brwncaled.com)

Director: **Suzanne Dudziak**  
[greylockllc@comcast.net](mailto:greylockllc@comcast.net)

Director: **Carl Einberger**  
(206) 342-1776  
[ceinberger@geomatrix.com](mailto:ceinberger@geomatrix.com)

Director: **Steve Foster**  
(425) 450-6316  
[sfoster@hdrinc.com](mailto:sfoster@hdrinc.com)

Director: **Kenneth Gish**  
(206) 623-7580  
[kennethg@klgates.com](mailto:kennethg@klgates.com)

Director: **Steven Hughes**  
(206) 438-2159  
[steven\\_hughes@urscorp.com](mailto:steven_hughes@urscorp.com)

Director: **Tom Martin**  
(360) 286-0278  
[tommartin@wavecable.com](mailto:tommartin@wavecable.com)

Director: **Stan Miller**  
(509) 477-6024  
[samillerh2o@comcast.net](mailto:samillerh2o@comcast.net)

Director: **Tom Ring**  
(509) 865-4946  
[ringt@yakama.com](mailto:ringt@yakama.com)

Director: **Pete Sturtevant**  
(425) 453-5000  
[psturtev@ch2m.com](mailto:psturtev@ch2m.com)

UW Student Rep: **Julie Horowitz**  
[jdh27@u.washington.edu](mailto:jdh27@u.washington.edu)

Faculty Advisor: **Anne Steinemann**  
(206) 616-2661  
[acstein@u.washington.edu](mailto:acstein@u.washington.edu)

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## 2007 Membership / Change of Address Form

( ⌂ please circle, as appropriate ↶ )

Annual membership in the state chapter costs \$25.

Name \_\_\_\_\_ Position \_\_\_\_\_ Affiliation \_\_\_\_\_

Street Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone(\_\_\_\_\_) \_\_\_\_\_ Fax(\_\_\_\_\_) \_\_\_\_\_ E-mail \_\_\_\_\_ @ \_\_\_\_\_

- Please indicate if you prefer to receive your newsletter electronically.
- Check if you would like to be actively involved on a committee:  
You will be contacted by a board member.

2007 Membership Dues: \$25.00. **Checks only.** Please make payable to **AWRA Washington Section.**

Mail to: American Water Resources Assoc. WA. Section  
P.O. Box 2102  
Seattle, WA 98111-2102

The American Water Resources Association is a scientific and educational non-profit organization established to encourage and foster interdisciplinary communication among persons of diverse backgrounds working on any aspect of water resources disciplines. Individuals interested in water resources are encouraged to participate in the activities of the Washington Section.

**Special Thanks!**  
**To Golder Associates for word processing and graphics support on this newsletter.**

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