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Due to climate change, patterns of temperature and precipitation will change. Concurrently, significant economic, social and political changes may also impact ecosystem protection and restoration.

Stream restoration decisions are often made without considering how these restored ecosystems will function under future conditions.

We invite you to this 2-day workshop that will introduce the methodologies and procedures for initiating, planning, analyzing and ultimately designing long-term sustainable river and stream stabilization or restoration projects.

To register, visit

<http://www.civicinfo.bc.ca/event/2015/NorthVancouverStreamRestorationWorkshop.asp>

Day One June 3rd 2015

- 7:45 to 8:15 Sign In at Municipal Hall (355 West Queens Rd, NV)
- 8:15 to 8:30 Welcome and Introductions
- 8:30 to 9:45 Philosophy of Restoration
 - Stream Regimes
 - Meanders & How Streams Dissipate Energy
- 9:45 to 10:00 Break
- 10:00 to 11:30 Channel Evolution Model, Headcut Video & Grade Control
- 11:30 to 12:00 Duck Creek Construction Video & Update
- 12:00 to 1:00 Lunch
- 1:00 to 1:15 Stream Access
- 1:15 to 2:15 Bioengineering Methods
- 2:15 to 2:45 Keys, Filters, Stones
- 2:45 to 3:00 Break
- 3:00 to 3:30 Innovative Methods: 18 Mile Creek Video with Hydraulic Cover Stones, Locked Logs, etc.
- 3:30 to 4:30 Case Studies with Redirective Methods (Bendway Weirs & Rock Vanes) and Discussion about Day #2 Field Trip

Day Two June 4th 2015

- 8:00 to 8:30 Meet at Centennial Theatre Parking Lot at 23rd St. and Lonsdale, North Vancouver
- 8:30 to 9:00 Board Bus and travel to site
- 9:00 to 12:00 On site hike and teachable moments
- 12:00 to 1:00 Bagged Lunch
- 1:00 to 3:30 Continue Site Hike and teachable moments
- 3:30 to 4:00 Board Bus and Return to Parking Lot

The 2-day workshop is a collaborative effort of the District of North Vancouver and the Partnership for Water Sustainability in BC

The District will host Day #1 at the Municipal Hall, located at 355 West Queens Road, North Vancouver, BC



The workshop will be led by

David L. Derrick

David graduated from Villanova University with a B.S. Civil Engineering Degree in 1978 and was with the U.S. Army Corp of Engineers (ACE) until his retirement in 2013. While with ACE, he held the position of Research Hydraulic Engineer in the Coastal and Hydraulics Lab (CHL). For the last 18 years, David has held the position of Vice President with River Research and Designs Inc.



A true innovator in Potomology (the study of the behaviour of rivers), he specializes in environmentally compatible, cost effective approaches and methodologies for design of river training structures, innovative construction methodologies for stream stabilization works, river and stream training structure inspection, monitoring, and performance analysis and physical movable-bed modeling.

David has also been the principal investigator on the effects of vegetative roughness and developing repair and maintenance guidelines for over 10,000 ACE shallow-draft navigation river training structures.

David has developed and refined dozens of cost-effective streambank protection techniques, including different types of Bendway Weirs.

AN OPPORTUNITY TO LEARN FROM ONE OF THE BEST: Through 150-plus workshops in the last 8 years, David Derrick has taught over 8,000 individuals the philosophy, methods, and concepts of river design and fluvial geomorphology.

“David is one of the most innovative stream people I've worked with. His expertise, and experience on providing stream solutions makes him one of the top in the field.”

Phil Balch, Founding Partner
The Watershed Institute, Kansas

FOR MORE INFORMATION,

Contact Richard Boase, P.Geo., at BoaseR@dnv.org or at the District of North Vancouver offices at 604-990-2365

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“Half-Drowned Bushes, Wrong Way Boil-Up Pools, Slit Brush Layering, Locked logs, Single Stone Bendway Weirs - all are methods that can improve stream hydraulic & environmental functions in the Vancouver area”

Dave Derrick, April 2015



Workshop Fees	Early Bird (up to May 3)	After May 3
PWSBC Members	\$295 + GST	\$345 + GST
All Others (includes 1-yr membership in PWSBC)	\$395 + GST	\$445 + GST