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# B.C. CWRA Conference

## “Water – Our Limiting Resource”

### Towards Sustainable Water Management in the Okanagan



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

February 23, 24 & 25, 2005

Manteo Resort - 3762 Lakeshore Road, Kelowna, BC, Canada V1W 3L4

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## Overview

Water in the Okanagan Basin is a limited resource that is already heavily allocated to uses such as agriculture, domestic water supply and maintaining a minimum streamflow for fisheries and other aquatic environment needs. At present per capita usage rates, the water resources of the basin will be totally allocated in less than 25 years. Communities that rely on reservoirs or streams are already starting to experience shortages in drought years, and minimum flows in streams are often below conservation levels. The resource will continue to be subject to increasing demands due to increases in population and the impacts of climate change. To move toward sustainable water management in the Okanagan Basin requires difficult decisions now that will include reducing demand, new governance models that consider the basin as a whole, and more pro-active management.

The first day of the conference will be hosted in collaboration with the City of Kelowna and will feature presentations of papers submitted on the theme of water management in the Okanagan Basin. The second day of the conference will feature invited speakers focussing on the state of the basin and an overview of the issues. A status report on the Okanagan Basin study of 1974 will set the stage, and will be followed by presentations on the current status of water availability, licensing and use, groundwater, water quality, and aquatic resources in the basin, and on the projected water resource implications of climate change and population growth.

Day three will focus on finding short-term and long-term solutions to the water management crisis that are both pragmatic and implementable. The conference will conclude in a plenary workshop leading to the development of a set of specific recommendations, which will be provided to decision-makers as an expression of the concerns of water experts and others concerned with water management not only from the Okanagan basin, but from other areas of the province and elsewhere.

Key conference outputs will include the Proceedings (both hard-copy and CD) and a set of recommendations for improved water management assembled by delegates.

*For information on **sponsorship** opportunities, please contact  
Rob Scherer, email: [rob.scherer@forrex.org](mailto:rob.scherer@forrex.org), tel: (250) 762-5445 ext. 7516*

*For information on **exhibiting** opportunities, please contact:  
Kathy Lee, email: [kathy.lee@bchydro.bc.ca](mailto:kathy.lee@bchydro.bc.ca), tel: (604) 528-1450*

*For information on **volunteering**, please contact:  
Jillian Tamblyn, email: [jtamblyn@syilx.org](mailto:jtamblyn@syilx.org), tel: (250) 707-0095*

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## **Program Overview**

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Poster Session	February 23, 24 and 25
Case Studies	February 23
State of the Basin	February 24
Solutions	February 25

## **Accommodation Information**

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### Conference Hotel:

Manteo Resort: 3762 Lakeshore Rd.      rooms starting at \$114/night      1-800-445-5255

### Other nearby hotels:

Kelowna Lakeshore Inn	3756 Lakeshore Rd.	1-877-657-5253
Pandosy Inn	3327 Lakeshore Rd.	1-877-762-5858
Siesta Motor Inn	3152 Lakeshore Rd.	1-800-663-4347

## **Poster Session**

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### **Wednesday February 23 – Friday February 25:**

Hydrogeology of the Kelowna Area	Remi Allard, Golder Associates Ltd.
Characterizing Stream Shade in the Southern Interior	Pat Teti, B.C. Ministry of Forests
Effects of Group Selection on Snow Ablation	Pat Teti, B.C. Ministry of Forests
Bow River Basin Waterscape Poster – Public Outreach Model for the Okanagan	Bob Turner, Natural Resources Canada
The Upper Penticton Creek Watershed Experiment: Research Providing Water Resource Management Solutions in the Okanagan Basin	Rita Winkler, B.C. Ministry of Forests
Cotton Creek Research Project: a partnership approach to watershed management	Georg Jost, UBC

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### Wednesday February 23 – Case Studies:

- 8:30 Welcoming Remarks – Paul Whitfield, CWRA B.C. Branch President and Valerie Cameron, CWRA National President
- Welcome to the Okanagan and the Conference - Chief Stewart Phillip, Chair, Okanagan Nation Alliance
- 8:45 Conference Overview – Brian Guy, Conference Chairperson
- |       | <b>Morning Session A</b> Chaired by Don Dobson, Dobson Engineering Ltd.                                                                                              | <b>Morning Session B</b> Chaired by Mark Watt, City of Kelowna                                       |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 9:00  | Okanagan Lake Foreshore Inventory and Mapping – Brent Magnan, Regional District of Central Okanagan                                                                  | Trepanier Landscape Unit Water Management Plan – Brian Guy, Summit Environmental Consultants Ltd.    |
| 9:30  | The Physical Limnology of Okanagan Lake - Lillian Zaremba, Hay & Co. Consultants Ltd.                                                                                | In the Hands of the Community - Michael Zbarsky, University of Victoria                              |
| 10:00 | Refreshment Break                                                                                                                                                    |                                                                                                      |
| 10:30 | Snow & Snow Surveys in the Okanagan Basin - Alan Chapman, Ministry of Water, Land, and Air Protection                                                                | Central Okanagan Post Fire Rehabilitation Project– Michelle Kam, City of Kelowna                     |
| 11:00 | The Changing Climate of the Okanagan Basin – Bill Taylor, Environment Canada                                                                                         | The Experimental Reintroduction of Sockeye into Skaha Lake, BC – Kari Long, Okanagan Nation Alliance |
| 11:30 | Changes in Crop Water Demand in Response to Climate Change and Associated Risks in Water Supply for Agriculture in the Okanagan – Denise Neilson, Agriculture Canada | The Okanagan Fish-Water Management Tool (OKFWM) – Clint Alexander, ESSA Technologies Ltd.            |
| 12:00 | Lunch and presentation by Mark Watt, Environment Manager, City of Kelowna<br>“Basin Water - the Kelowna Expectation”                                                 |                                                                                                      |

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### **Wednesday February 23 – Case Studies (continued):**

	<b>Afternoon Session A</b> Chaired by Michelle Kam, City of Kelowna	<b>Afternoon Session B</b> Chaired by Rob Scherer, Okanagan University College and FORREX
1:30	Trends in Water Demand & Consumption in the Glenmore – Ellison Improvement District - Greg Henderson and Amanda Bridge, GEID	Significant Advances in IT and Water Supply and Demand Management At Greater Vernon Services- T. Vandenburg, Greater Vernon Water
2:00	Application of the Water Use Plan Approach to Resolve Water Management Issues on Trout Creek in Summerland - David Sellars, Water Management Consultants Ltd.	Water Management Decision Support Tool - Stacy Langsdale, University of B.C.
2:30	Refreshment Break	
3:00	South East Kelowna Irrigation District: Agricultural Water Conservation Program Review – Toby Pike, SEKID	Risk-Based Wellhead Protection Planning – Scott Schillereff, EBA Engineering Consultants Ltd.
3:30	The Race for Water: Reflections on the 1974 Okanagan Basin Study – John Janmaat, Acadia University	Simulated Streamflow Response to Large-Scale Forest Harvesting in Upper Pentiction Creek - Marcus Schnorbus and Younes Alila, University of B.C.
4:00	Assessment of Water Quality Trends and Revised Water Quality Objectives for Okanagan Lake – Vic Jensen, Ministry of Water, Land and Air Protection	Summerland Water Intake Feasibility Study – Edwin Wang, Hay & Co. Consultants Ltd.
4:30 – 6:00	“Meet and Greet” Social Gathering	

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### **Thursday February 24: State of the Basin and Overview of the Issues**

- 8:30 Welcoming Remarks – Hon. Bill Barisoff, Minister of Water, Land, and Air Protection  
Overview of Day 2 – Brian Guy, Conference Chair  
**Morning Session** Chaired by Wenda Mason, Land and Water B.C.
- 8:45 Okanagan Basin Study – 30 Years Later - Don Dobson, Dobson Engineering Ltd.
- 9:30 Water Availability and Use in the Okanagan Basin – Kevin Dickenson, Land and Water B.C.
- 10:15 Refreshment Break
- 10:45 Groundwater Assessment in the Okanagan Basin – Vicki Carmichael, Ministry of Water, Land and Air Protection
- 11:30 Water Quality in the Okanagan Basin: Dependence on Spatial and Temporal Drivers - Jeff Curtis, Chair, Freshwater Science Program, Okanagan University College
- 12:15 Lunch and Presentation of CWRA Awards  
**Afternoon Session** Chaired by Brian Symonds, MWLAP
- 1:30 Fisheries and Aquatic Resources in the Okanagan Basin: Past, Present, and Future - Deana Machin, Okanagan Nation Alliance
- 2:15 Impacts of Population Growth on Okanagan Water Resources – Leah Hartley, Regional District of Central Okanagan
- 3:00 Refreshment Break
- 3:30 Exploring Options for Adapting Water Management in the Okanagan Region to Future Climate Change – Stewart Cohen, Environment Canada and University of British Columbia
- 4:15 Water Management Initiatives in the Okanagan - Robert Hobson, Chair of the Central Okanagan Regional District
- 5:00 State of the Basin Summary – Brian Guy, Conference Chair
- 6:30 Banquet and Presentation by Dr. Tom Siddon – retired academic and former federal Minister of Fisheries: “Science vs. Politics - Finding the Balance”

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### **Friday February 25: Finding the Solutions**

- 8:30 Overview of Day 3 – Denis Davis
- Morning Session** Chaired by Denis Davis
- 8:45 Challenges and Innovations in Water Resources Management in the Okanagan Basin – Dr. Hans Schreier, University of B.C.
- 9:15 Governance and Allocation Models – Murray Clamen, International Joint Commission
- 10:00 Refreshment Break
- 10:30 Changing Perspectives – Changing Paradigms: Demand Management Strategies and Innovative Solutions for a Sustainable Okanagan Water Future - Lynn Kriwoken, Ministry of Water, Land, and Air Protection and Oliver Brandes, POLIS Project
- 11:00 Water Balance Management in the Okanagan: Now What Do We Do? – Kim Stephens, KSA Associates Ltd.
- 11:30 Information Management as it Relates to the Okanagan Watershed: Our Common and Life Sustaining Heritage - Nelson Jatel, B.C. Freshwater Institute
- 12:15 Lunch and Presentation by Denis Davis, retired Director General, Environment Canada: "Why Action Now?"
- 1:30 Plenary Workshop – Development of Recommendations for Improved Water Management in the Okanagan (small group and plenary discussions) – led by Victor Cumming, Westcoast CED Consulting Ltd.
- 3:10 Summary of Plenary Recommendations – Victor Cumming
- Conference Review and Wrap-up – Brian Guy, Conference Chair
- 3:45 Press Conference

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### REGISTRATION FORM

	Member	Student (note 4)	Non-Member (note 5)	Amount
<b>Early Registration (By January 14, 2005)</b>				
Full Conference, February 23-25, 2005 (note 1)	\$325	\$180	\$415	_____
Single Day February 23, 24, or 25 (note 2)	\$175	\$95	\$200	_____
<b>Late Registration (After January 14, 2005)</b>				
Full Conference, February 23-25, 2005 (note 1)	\$375	\$210	\$465	_____
Single Day, February 23, 24, or 25 (note 2)	\$205	\$115	\$230	_____
Banquet, February 24, 2005	\$50	\$50	\$50	_____
				_____
	<b>Cost</b>	<b>Quantity</b>		
Proceedings	\$60/copy	_____		_____
			<b>Sub-Total</b>	_____
			<b>7% GST (Registration No. 10077-3799 RT0001) (note 6)</b>	_____
			<b>Total</b>	=====

**Notes:**

(1) Includes lunches, coffees, banquet and proceedings; (2) Includes lunches and coffees but NOT banquet or proceedings; (4) Requires student ID; (5) Includes CWRA membership for 2005; (6) Government employees are exempt from GST – if you wish to claim a GST exemption, please provide a photocopy of the provincial government credit card.

**Register early as space is limited at Manteo. Please register by February 9, 2005. Cancellations will be accepted in writing only until February 9, 2005. Please forward this registration form with a cheque or money order, payable to the Canadian Water Resources Association, or fax this form with your VISA / MasterCard information to: Yvonne Wai, c/o Earth Tech Canada Inc., 1901 Rosser Ave., 6<sup>th</sup> Floor, Burnaby, B.C., Canada, V5C 6S3, Tel: (604) 298-6181, Fax: (604) 294-8597, E-mail: [yvonne.wai@earthtech.ca](mailto:yvonne.wai@earthtech.ca)**

Name Mr./Ms./Mrs./Dr First Name Initial Last Name			Are vegetarian meals required? (Yes / No)		Do you have food allergies? (Yes / No / Please list above)	
Title / Organization			If you wish to pay by VISA or MasterCard, please fill out the following information and sign below:			
Address			VISA / MasterCard number		Expiry Date (MM/YY)	
City		Province / State	_____			
Country		Postal Code / Zip Code	_____			
Telephone No.		Fax No.	Card Holders Name			
E-mail			Signature			

