

20th ANNUAL

Wings over the Rockies

MAY 9th to 15th • 2016

Reflections

on water



Photo by: Alistair Fraser



GUEST SCIENTIST & KEYNOTE SPEAKER

Dr. David Schindler

An internationally celebrated scientist who has led efforts to protect fresh water resources in Canada and around the world



**A Week Full of Exciting Events Celebrating Birds,
Nature & Water • Registration Opens April 11th • 2016**



www.WingsOverTheRockies.org • Local: 250-342-2473 • Toll Free: 1-855-342-2473

PYNELOGS CULTURAL CENTRE • INVERMERE • BC

Reflections

on water



Welcome to the 20th annual Wings Over the Rockies Festival. Since 1997 Wings has maintained its purpose “to foster immediate and long term positive action on behalf of birds, wildlife and habitat by utilizing and recognizing public education, research results, quality economic development and the skills and resources of our communities, balancing the needs of humans and natural systems.”

20 YEARS OF WINGS FESTIVALS

- 1997 Wings Over the Rockies - Wayne Campbell
- 1998 Migration Sensation - David Bird
- 1999 no theme - Brian Keating
- 2000 Art of Nature - Robert Bateman
- 2001 Joy of Discovery - John Acorn (the “Nature Nut”)
- 2002 Rivers of the Sky - Bill Lishman (Father Goose)
- 2003 Wonder of Water, Columbia River Swimmer - Christopher Swain
- 2004 Nature’s Orchestra - Ian Tamblyn

- 2005 Birds... Past, Present & Future - Dr. Philip Currie
- 2006 The Big Year - Brian Keating
- 2007 Conservation in Action, Working Together for the Birds - Ben Gadd
- 2008 Follow the Leaders, Mentors in Birding - Bill Lishman
- 2009 Science Takes Flight - Dick Cannings
- 2010 Biodiversity, the Web of Life - Dr. Faisal Moola
- 2011 Celebrating Our Valley, Celebrating the People - Larry Halverson
- 2012 Our Backyard, the Envy of the World - Bruce Kirkby
- 2013 Celebrating Mountains, Wetlands & Wildlife - George Sirk
- 2014 The Mystery of Migration - Brian Keating
- 2015 Fossils and Feathers - Jean-Bernard Caron
- 2016 Reflections on Water - David Schindler

This year “Reflections on Water” continues that tradition led by Dr. David Schindler, guest

scientist and keynote speaker. David Schindler is an internationally celebrated scientist who has led efforts to protect freshwater resources in Canada and around the world. He now resides on the edge of the wetlands near Brisco. In addition to his keynote address “Protecting Canada’s Freshwaters in the 21st Century”, Dr. Schindler will make a luncheon presentation “Preventing Algae Blooms” and together with Heather Leschied and Rick Nordin, conduct a two day Lakekeepers workshop.

Wings’ 1998 keynote Dr. David Bird is returning with talks about the sex life of birds and using drones for bird research. Also returning by popular demand is The Wardens with all new music and stories from the backcountry. Bob Sandford will discuss the science in Hollywood disaster movies and reconsideration of the Columbia River Treaty. This year’s Festival now features a dozen

events for children and families. Many of our favorite event leaders are back including Pat Morrow, Randy Hopkins, Cam Gillies, Dave Quinn, Bill Thompson and Dean Nicholson.

The home base for the Wings Festival is Invermere’s historic Pynelogs Cultural Centre located adjacent to Kinsman Beach on Lake Windermere. Here you will find registration assistance, evening presentations, an art show and a display of live and silent auction items. In all, more than 100 field trips, presentations, workshops and paddles are scheduled throughout the Columbia Valley, with details of each event provided in this brochure. Registration starts on Monday April 11th at 9:00 AM sharp. Many events sell out quickly, so register early.

Jim Bonny
ACTING CHAIR

Protecting Canada’s Freshwaters in the 21st Century – D. W. Schindler

Two major factors threaten Canada’s freshwater lakes, rivers and wetlands in the remainder of this century: Human population growth and the quest for an economy that always expands, even though the resources (including water) that expansion depends on are finite. For the most part, we deal separately with the symptoms of these two problems, such as nutrient pollution, biodiversity, habitat loss, water shortage, climate change, and a host of others.

Water quality and quantity are excellent indicators of how well we are doing at protecting all types of ecosystems, because of recent advances in water chemistry and hydrology. Because water “sewers” all of our watersheds and airsheds, changes in water quantity and quality are very sensitive measures of how well we are managing all types of ecosystems. An important key to success of this approach is to have excellent background monitoring before major development occurs, and to have some vision for how far we are willing to let our waters be compromised. An envisioning process that considers number of humans, their “footprint” on the landscape, and the inevitable tradeoffs between conservation and economics is essential to long-term success.

Common Merganser



Alistair Fraser’s wonderful photograph on the 2016 Wings Over the Rockies poster and brochure is of a female Common Merganser and her chicks. She will have laid a clutch of eggs in a down-lined tree cavity or a hollow on a lakeshore. Ducklings hatch in a month and spend another 5 weeks paddling around with Mom before they can fly. They’ll learn to dive for small fish and to eat frogs, salamanders, snails, leeches and worms with saw-toothed bills. As adults, they’ll grow to a wingspan of up to 95 cm, develop bright red bills and assume either the distinct rusty, spiked crest of the hen or the sleek, deep green head of the drake. Most will winter on inland lakes in the United States, although the croaking call of a drake may be heard, rarely, on open water in southern BC.

Reflections on the Legacy of Ian Jack

by Kevin Van Tighem, Larry Halverson and Ross MacDonald

A plaque along Highway 93 above the Columbia Wetlands Wildlife Management Area south of Radium Hot Springs, British Columbia commemorates Ian David Jack. It states: Greatly respected for his long service as Chief Naturalist of Kootenay National Park, Ian Jack devoted his life to conservation, wildlife, and land-use issues. It is largely through his efforts that the wetlands you see below remain in their natural state for the use and benefit of future generations.

In the early 1970s, B.C. Hydro was determined to generate electrical power by diverting the Kootenay River into the Columbia River at Canal Flats. The project also would have led to the loss of communities, transportation routes and important habitats for waterfowl, migrating birds and mammals, plus decreased tourism.

The odds seemed hopeless when Ian Jack began the battle to save the wetlands. Prevailing public sentiment was that what was good for Hydro was good for B.C. However, Ian believed that it would be ethically wrong to fail to protect the Columbia wetlands from human-made flooding. And so in the early 1970s, he began a campaign against the river diversion proposal. Ian's strategy was to engage people, building awareness of the ecological values at stake and commitment to the cause of protection.

Bob Jamieson, a biologist-rancher from Ta Ta Creek, says that "Ian was one of those rare people who crossed over the line between naturalist and hunter," he says. "He could go out and shoot ducks in the morning, then spend the afternoon finding some rubber boas and making notes on them. He was the antithesis of the modern computer biologist. He learned from talking to the people, and he could talk with anyone." Nobody in Ian Jack's world was an outsider. Everybody, in his view, was an environmentalist. His knack was helping them realize it.

Gradually public opinion turned against the river diversion project. Finally BC Hydro announced in 1990 that there would be no Kootenay-Columbia diversion.

Ian was also involved in the 1996 establishment of the Columbia Wetlands Wildlife Management Area that protects nearly 17,000 hectares of habitat from development while still providing for recreational uses such as hunting, fishing, nature study and eco-tourism where they don't conflict with wildlife needs.

Tragically, Ian died in 1996 at the untimely age of 53. His influence did not stop with his passing.

In 1997, several of Ian's former colleagues from Kootenay National Park helped create the Wings Over Rockies Bird Festival that continues to celebrate the Columbia wetlands.

In 2007, a diverse group representing First Nations, federal, provincial, regional and municipal governments, environmental organizations, industry, recreation, corporations, educational institutes and private landowners formed the Columbia Wetlands Stewardship Partners to support the health and long term viability of the wetlands.

As we reflect back, we can see the impact of one man. It is largely through Ian Jack's efforts that the Columbia Wetlands remain in their natural state for the use and benefit of future generations. As Ian would often say "Values, my friends! - Roots and Wings and Values. That is what life is all about"

What are the Red Chairs?



Check out the Red Chairs in Kootenay National Park. Snap a photo and #sharethechair on Facebook or Twitter.

Kootenay National Park's Red Chairs are all about taking time to connect with nature and with each other. Placed at special locations in national parks across Canada, some Red Chairs are easy to find, while others provide more of an adventure. All of them offer a place to rest, relax, and reflect on the place you've discovered and the journey you took to get there.

In Kootenay, you'll find Red Chairs a short stroll from the Radium hot pools and at the upper end of the Marble Canyon Trail.

The idea began at Gros Morne National Park, where 18 sets of chairs were installed throughout the park in 2013. Visitors have been seeking them out and sharing their chair adventures on social media ever since! The program has grown to include national parks across the country.

Soak and Stroll with Parks Canada's Red Chairs

Take a self-guided tour of the hot springs area in Kootenay National Park. Compare past and present views of Sinclair Canyon using the park's new Explora app. Start at the upper parking lot, stroll to Parks Canada's Red Chairs, and soak in Radium Hot Springs. Level: easy

Any day, any time!

Hot pool hours:

Monday to Friday - 1:00 p.m. to 9:00 p.m.

Saturday and Sunday - 10:00 a.m. to 9:00 p.m.

MAX # As many as you can comfortably fit around your phone or tablet

LOCATION: Radium Hot Springs in Kootenay National Park

Soak: Hot Pool entry fee Stroll: Free

Things to bring: Android or Apple smart phone or tablet with the Explora Kootenay app installed, bathing suit, towel (historic suits and towels are also available to rent!)

Directions: There is no wi-fi or cell coverage in the park, so download the app before you come: pc.gc.ca/knp-app. Launch the app before you enter the park and let it guide you to the Radium Hot Springs stop just past the pools. Select the Augmented Reality Time Machine Tour and let the GPS-triggered content guide you past the pool facility to the Red Chairs.



Can Drones Help Our Bird Populations?

Small unmanned vehicle systems (UVS), sometimes referred to as "drones" and formerly exclusive to militaries, are rapidly advancing in sophistication and availability to civilians. Ranging from hand-launched autonomous airplanes to terrestrial robots to underwater machines, they are increasingly being employed in such areas as agriculture, emergency services, meteorology, oceanography and now, small UVS are being used in the field of bird research and management, for example conducting population surveys, tracking radio-tagged birds, sensing and observing birds in inaccessible or dangerous places, mapping and monitoring bird habitats, and deterring nuisance bird species. Join Dr. David M. Bird as he explores these applications of UAS for ornithology research and management, including costs, sizes, practicality in the field, regulations, etc.

2016 Wings Week Events • Presentations & Field Trips

MONDAY MAY 9th

Take A Walk On The Westside with the Westside Legacy Trail

Join local nature enthusiast Sherry Dewey (along with a Westside Legacy Trail representative) for an interpretive hike along the Westside Legacy Trail. While learning about local flora and fauna, you will be the first to experience a section of what will be 25km of paved, multi-use trail connecting Invermere and Fairmont Hot Springs. **Level: moderate**
Mon May 9th from 7:30 am to 10:00 am
MAX # 15
LOCATION: Invermere Area
COST: \$20.00
Things to bring: water and dress for the weather. Remember to wear sturdy walking/hiking shoes.

Moberley Meander – Ellen Zimmerman

Join Ellen Zimmerman, long time valley birder to explore a hidden treasure of the BC Parks system. Burges and James Gadsden Provincial Park encompasses most of the Moberly Marshes and is located 10 km north of the town of Golden between the Trans Canada Highway and the Columbia River. Short stop at Refection Lake. **Level: easy**
Mon May 9th from 7:30 am to 11:00 am
MAX # 15
LOCATION: Golden
COST: \$15.00
Things to bring: binoculars and water

K2 Ranch Birding Excursion - Brian Wesley

Join Brian Wesley on a birding foray on the north end of the K2 ranch property. The 7 km hike will follow old logging roads through cutblocks, forests, and meadows and along several ponds. There will be a mix of both forest and aquatic birds to spot. Those bringing lunch will spend additional time exploring the area and nearby pond. **Level: intermediate**
Mon May 9th from 7:30 am to 11:30 am or 1:30 pm (if bringing a lunch).

MAX # 12
LOCATION: K2 Ranch, Invermere area
COST: \$20.00
Things to bring: dress for the weather, bug spray, sunscreen, good hiking/walking boots, binoculars, lunch, snacks & water

Birding for Dummies - Cathy Parkes

Can't tell an Owl from an Albatross? Do you feel intimidated by experienced birders? We will get familiarized with the tools of the trade and help learn to identify the birds you see. **Level: easy**
Mon May 9th from 8:00 am to 11:00 am
MAX # 15
LOCATION: Invermere and surrounding area
COST: \$15.00
Things to bring: Bring binoculars and field guides, but they are not required for this event.

Swansea Hike – Ceiling of the Valley!

On this hike you will have the chance to view the Columbia Valley from above! This 5-hour trek brings you up the west side of the mountain, where you will experience sporadic vistas while climbing the switch-backed forested trail. Once you reach the top, the reward is a spectacular view up and down the valley. Take some time to soak up the sights, explore the mountaintop and have a snack before heading back down the south side of the mountain (trail conditions permitting). **Level: expert**
Mon May 9th from 9:00 am to 2:00 pm
MAX # 20
LOCATION: Invermere Area
COST: \$25.00
Things to bring: Lunch, snacks, water. Sturdy walking shoes, dress for the weather, walking sticks, camera and bug spray.

Source of the Columbia – Colin Cartwright

Walk to the south end of Columbia Lake with host, author and local historian, Colin Cartwright, to see the springs that are the beginning of the headwaters

of the mighty Columbia River. Learn some local history of the wetlands and of the surrounding area. **Level: easy**
Mon May 9th from 9:00 am to 11:00 am
MAX # 15
COST: \$15.00
Things to bring: dress for the weather, proper walking shoes, binoculars, snacks and water

Catch-as-Catch-Can - Randy Hopkins

North, East, South, West – so many places to look, so little time! Come along on this opportunistic search for birds around the valley. Special requests are encouraged. Get ready for a relaxed, fun and spontaneous experience! **Level: Moderate**
Mon May 9th from 9:00 am to 12:30 pm
MAX # 15
LOCATION: Columbia Valley area
COST: \$15.00
Things to bring: dress for the weather, proper walking shoes, binoculars, snacks and water

Biking and Birding – Ruth Goodwin

We'll bike approximately 25 km, mostly on the paved Rails to Trails connecting Kimberley and Cranbrook. The rail bed originally hauled ore from the Sullivan Mine in Kimberley, once the largest Lead/Zinc mine in the world, on its first leg to the smelter in Trail. It was paved in 2010 and immediately became a popular recreation trail for local residents. The grade is gentle with some steeper sections. Approximately 4 km will be on a hard packed dirt trail along Mark Creek and another one kilometer on a meadow trail near St Mary's River. Hybrid or mountain bike is necessary. **Level: Intermediate**
Mon May 9th from 9:30 to 1:00 pm
MAX # 12
COST: \$15.00
LOCATION: Kimberley
What to bring – hybrid or mountain bike and gear, binoculars, snack and water



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2016 Wings Week Events • Presentations & Field Trips

MONDAY MAY 9th

Columbia Lake Paddle & Picnic - Dave Quinn & BC Rockies Adventure Guides

Join naturalist, Michelle Porteous and Dave Quinn, naturalist, photographer and adventure writer for a kayak trip along Columbia Lake to Armstrong Bay. Discover a secret beaver habitat where waterfowl love to relax and feed, and then take a short walk through the surrounding grassland and forest to observe blue birds, meadowlarks, ground squirrels and elk. We'll end with a relaxing picnic on the lake's shore. **Level: intermediate**
Mon May 9th from 9:30 am to 1:30 pm
MAX # 12, Ages 14+
LOCATION: Fairmont area
COST: \$55.00 (Includes snacks, lunch, kayak, PFD and guides)
Things to bring: Dress for the weather

Columbia Wetlands Waterbird Survey with Rachel Darvill

The Columbia Wetlands Waterbird Survey (CWWS) utilizes keen citizen-scientists to gather valuable bird data. Join CWWS's program biologist Rachel Darvill to view waterbirds and to learn more about the program that is collecting useful waterbird inventory data during both spring and fall migrations. **Level: easy**
Mon May 9th from noon to 1:30 pm
MAX # 15
LOCATION: Golden
COST: \$15.00
Things to bring: Binoculars, water, snacks, dress for the weather.

Grohman's Dream – Colin Cartwright

Walk a stretch of the Historic Canal between the Columbia & Kootenay Rivers, constructed by Baillie Grohman. See the remains of the lock and learn some of the history of the construction as well as some local history and information on the area. **Level: easy**
Mon May 9th from 1:00 pm to 3:00 pm
MAX # 20
LOCATION: Canal Flats
COST: \$12.00
Things to bring: Binoculars, water, snacks, dress for the weather.

Old Coach Trail Interpretive Walk with Ross MacDonald

The Old Coach Greenway trail is located within the provincial Columbia River Wildlife Management Area, a component of one of the longest contiguous wetland systems in North America. The trail offers outstanding views of the historic Columbia River, the travel route used by indigenous peoples, fur traders and settlers. Natural hoodoos are also visible as the trail passes through Christmas tree farms and the grasslands that are habitat to bighorn sheep, numerous birds and rare plants. **Level: intermediate**
Monday May 9th from 1:00 pm to 5:00 pm
MAX # 20
LOCATION: Radium Hot Springs area
COST: \$15.00
Things to bring: Good walking shoes/hiking shoes, binoculars, hat, and camera

Exploring the Edgewater Flume – Norm Funnell

The Edgewater flume, operational since 1913, is one of a very few (perhaps the only) functioning irrigation flumes in BC. You will be introduced to the flume and its history on this exploratory hike. We may even be lucky to spot a pair of nesting dippers at the Kindersley Creek dam. **Level: intermediate**
Mon May 9th from 2:00 pm to 5:00 pm
MAX # 10
LOCATION: Edgewater
COST: \$15.00
Things to bring: Binoculars, water, snacks, dress for the weather.

Water Water Everywhere with Dave Quinn (Afternoon-Break Presentation)

A light-hearted look at some of the water issues facing real people, in real communities, around the planet. From Greenland's Thule District, where a family's weekly water allowance arrives in the form of a giant iceberg chunk dumped on their doorstep, to Chilean Patagonia, where remote families are fighting plans to dam their way of life along the wild, glacial Rio Baker, Dave will take you on a tour of some of the many reasons we need to start to savour every drop of clean, pure mountain water we enjoy here in the Columbia Valley. Dave will also give an overview of some of the groundbreaking water education programs offered by local grassroots education groups right here in the Kootenays.
Mon May 9th from 3:00 pm to 4:30 pm

MAX # 50

LOCATION: Fairmont Hot Springs

COST: \$20.00 (includes a mid-afternoon snack & refreshments)

Guided Evening Columbia River Trip - Radium to Edgewater

Our knowledgeable and highly skilled guides will lead you through this pristine section of the Columbia River. Paddling into the evening, enjoy the twilight and the sounds of the birds and wildlife before they settle down for the night. Basic paddling experience necessary. **Level: Easy**
Mon May 9th from 5:00 pm to 8:00 pm
MAX # 36
LOCATION: Radium
COST: \$65.00 (includes PDF, boats, paddles, guide and return transportation to Radium)
Things to bring: Snack, water & dress for the weather

Mainstreams Environmental Stream Trailer Demo with Dave Quinn

MainstreamS Join Mainstreams Environmental for a hands-on, fun exploration of watershed dynamics, erosion, and human impacts on stream ecology and water quality with their unique and popular Stream Trailer. Get your hands wet and experience a sampling of our curriculum-focused water education programs facilitated by this exciting teaching tool.
Mon May 9th from 6:00 pm to 7:30 pm
LOCATION: Pynelogs Cultural Centre Parking Lot
COST: Free event, everyone welcome & bring the kids

Come Hell & High Water with Bob Sandford (Evening Presentation)

Scientific Truth & Consequences in Hollywood Disaster Movies
This enlightening and often very amusing presentation takes a look at some of the classics of the "Cli-fy" genre to show where the science has been bent out of shape for the purposes of entertainment so that we can better understand what is really happening here, where we live in Canada, with respect to water and climate security.
Mon May 9th at 7:00 pm
MAX # 100
LOCATION: Pynelogs Cultural Centre
COST: \$15.00

NEW THIS YEAR - FAMILY EVENTS

Richard Louv, co-founder of Children and Nature Network, explains that nurturing children's intimacy with nature optimizes physical and mental health, promotes creativity and engenders environmentalism. In keeping with this viewpoint, Wings Over the Rockies 2016 offers a number of family-friendly events in out-of-school hours.

On Monday evening, Mainstreams Environmental offers a free opportunity to explore watershed dynamics in their hands-on Stream Trailer.

On Saturday morning, families can join Wildsight's Kim Urbaniak for a guided hike and craft at Lake Enid, or Duncan Whittick and Karen Reid for encounters with water monsters and dinosaur descendants at James Chabot Beach. Duncan and Karen will repeat this adventure on Sunday morning.

Saturday afternoon offers crafting, water play, birding and hiking. Artists can join the Black Star Studio crew to create bird sculptures, and young scientists can work with

Wildsight to explore the wonder of water. Later, Dr. David Bird will conduct a short child-focused birding excursion, and Patrick Tolchard of Fairmont Hot Spring's BC Rockies Adventure Guides will lead an all-ages hike to Geary Look Out for expansive views of the Columbia Valley Wetlands. Patrick will repeat the trek on Sunday afternoon.

On Sunday morning, fledgling birders can join Cam Gillies and Michael den Otter for an expedition around Windermere. In the afternoon, families can participate in a unique celebration of the Columbia River with an on-line link to families at the mouth of the river in Astoria, Oregon. Alternately, they might attend the Raptor Rehabilitation open house on the Toby Benches.

Register your kids for some fun adventures, and foster the next generation's love of nature.

Mainstreams Demo - Mon May 9 from 6 to 7 pm

Hands-on, fun exploration of water with the popular Stream Trailer

Water Monsters & Dinosaurs: A Family Wetland Exploration
Sat May 14th & Sun May 15th from 10 to 11:30 am

Lake Enid Family Walk - Sat May 14th from 10 to noon
Connect with Nature and your kids at the same time!

The Land of Smoking Waters - Sat May 14th & Sun May 15th from 1 to 4 pm
Enjoy an epic afternoon hiking through the forests around Fairmont Hot Springs (includes a pass to Hot Springs)

Paper Mache Bird Workshop at Black Star Studios - Sat May 14th from 1 to 2:30 pm
Get creative, get inspired, get messy...making a paper mache bird sculpture

Water Wonders with Wildsight's Education Team - Sat May 14th from 1 to 2:30 pm
It lives in lakes, rivers and seas, when it's cold it floats, when it's hot it's free!
What is it? WATER!

A Child's View of the Birds with Dr. David Bird - Sat May 14th from 2 to 4 pm
Join Dr. Bird on a relaxed bird-watching trip aimed at helping children learn to identify the birds around the Columbia Valley

Wonders of Windermere - Sun May 15th from 9 to 11 am
A family friendly outing to do some fun birding in Windermere

Ecological Tour on the Zehnder Farm - Sun May 15th from 9 to noon
Look for birds, watch a herding demonstration with Border Collies, search for Painted Turtles and watch for Mountain Goats...

Source to Sea: Stories & Films of the Columbia River - Sun May 15th from 1 to 3:30 pm
The Canal Flats event will offer both a headwaters hike and storytelling about the Source of the Columbia River

Project Takes Flight: Tour of the Raptor Rehabilitation Flight Cage
Sun May 15th from 2 to 4 pm - Come see the Raptor Rehabilitation Flight Cage

2015 Wings Week Events • Presentations & Field Trips

TUESDAY MAY 10th

Birding by Golf Cart with Fairmont Hot Spring's BC Rockies Adventure Guides

Join the BC Rockies Adventures guides for the most relaxing birding tour offered! Ride on golf carts through Riverside Golf Course and discover the plentiful bird life and wildlife that inhabit the golf course grounds. Spot nesting pairs of Lewis's Woodpecker, baby eagles and a variety of waterfowl. **Level: easy**

Tue May 10th from 7:00 am to 9:00 am

MAX # 20

LOCATION: Fairmont Hot Springs

COST: \$30 (includes a hot drink and a muffin)

Things to bring: Dress for the weather

How Forestry Manages Riparian Habitat for Birdlife with Kari Stuart-Smith, PhD, RPBio (Event sponsored by Canfor)

We will visit recently logged areas to walk and discuss the strategies that Canfor takes to manage habitat for birds associated with wetlands, streams, small lakes and the riparian habitat around them. If harvesting is active in the area we will visit an active logging operation. The trip will be led by Canfor wildlife biologist, Kari Stuart-Smith, who did her PhD on songbirds from the area. **Level: intermediate**

Tuesday May 10th from 7:30 am to 12:30 pm

MAX # 20

LOCATION: Radium

COST: \$20.00

Things to bring: water, snack, binoculars, hiking boots or sturdy shoes, dress for the weather and some walking over uneven ground and be prepared for muddy conditions.

"All day" Exploration Blitz: South – Randy Hopkins

"All Day?" Well, most of the day at least. Join Randy on a fast paced trip following the Columbia River valley from Invermere south to the Columbia Lake area. We'll be covering as much habitat as time permits, from wetlands to forests, from fields to river shores. Bring a lunch and enjoy the birds!

Level: challenging

Tue May 10th from 8:00 am to 4:30 pm

MAX # 15

LOCATION: Columbia Valley area

COST: \$30.00

Things to bring: Snack, water & dress for the weather

Wacky Waterbirds! With Cam Gillies

Ducks, mergansers, geese, grebes, and more! We'll survey the best watery haunts of the valley to find the usual suspects, including many high quality birds, but with a keen eye to see if we can find something wacky. Whatever we find, it will be fun! **Level: Easy**

Tue May 10th from 8:00 am to 11:00 am

MAX # 15

LOCATION: Invermere Area

COST: \$20.00

Things to bring: Snack & water and dress for the weather

Invermere to Radium BBQ Lunch on the River Paddle

On this 3 to 5 hour flat-water paddle from Invermere to Radium Hot Springs (17 km) you will spend a leisurely morning on the Columbia River exploring the local waterways. The Columbia River Wetlands lure more than 250 species of birds. Eagles, ospreys and herons and are a common sight throughout the season as are various species of wildlife. Guest appearance from Bob Sandford, "The Winston Churchill of Water". A delicious open fire BBQ lunch will be served riverside. Vegetarian option will be available. Basic paddling experience necessary. **Level: easy**

Tues May 10th from 9:30 am to 2:30 pm

MAX # 36

LOCATION: Invermere

COST: \$65.00 (includes PDF, boats, paddles, guide, BBQ lunch, and return transportation)

Things to bring: Camera, water & dress for the weather

The Path to the Perfect Cup: Kicking Horse Coffee Facility Tour

Did you ever wonder how coffee gets magically transformed, from that tree on the other side of the world, to that delectable and delicious cup you can't seem to start your day without? Come join our coffee "experts" for a rare glimpse inside our facility as we walk you through that transformation. See for yourself what makes Kicking Horse Coffee, Canada's number one Organic Fair Trade Coffee Company!

Tue May 10th from 10:00 am to 11:30 am

MAX # 12

LOCATION: Invermere

COST: \$15.00

Things to know: The tour takes place within a working production facility; all tour participants must be pre-registered, are subject to prior approval and may be required to sign a non-disclosure form. Cameras, (including cell phones or personal devices with camera capabilities), open-toed/open-heeled shoes or high heels will not be permitted in production areas.

Lower Bugaboo Falls Hike with John Pitcher & John Ashby (Columbia Valley Greenways Trail Alliance)

This 2.5 hour round-trip hike, led by members of the Columbia Valley Greenways Trail Alliance, follows a 1.5 km forested trail to the spectacular pounding Lower Bugaboo Falls. Originating from glacier meltwater high up in the Bugaboo Range, Bugaboo Creek flows down to join the Columbia River near Brisco. **Level: Intermediate**

Tue May 10th from 10:00 am to 12:30 pm

MAX # 15

LOCATION: Brisco area

COST: \$20.00

Things to bring: good walking footwear, water and a snack; dress for the weather.

Wetlands Interpretive Walk with Columbia Wetlands Adventure Guides

Join Geologist, Sid Leggett to adventure out on our interpretive loop trail with its breathtaking views of the Canadian Rockies. Follow the meandering boardwalk through marshes, past Heron Rookeries, beside beaver lodges and across a swinging bridge to discover the magic and to learn of the geology of the Columbia River Wetlands. Stunning lunch stops are available in the wetlands or above at the 'Worlds Largest Paddle area. **Level: easy**

Tue May 10th from 10:00 am to 11:30 am

MAX # 15

LOCATION: Parsons, BC

COST: \$15.00

What to Bring: Camera, Binoculars, Good Hiking boots, Sketchpad, Outerwear suitable for changing weather conditions. Bring your lunch to enjoy after the walk

Upper Columbia Watershed Tour with Megan Peloso from Lake Windermere Ambassadors

Discover the upper watershed of the mighty Columbia River and Wetlands. Participants travel by bus from the headwaters of the Columbia River to the recreational mecca of Lake Windermere. Get a closer look at restored shorelines, drinking water treatment, water use and conservation, and freshwater aquatic life. Come prepared to think about what will keep this precious resource healthy and resilient for future generations. **Level: moderate**

Tue May 10th from 10:30 am to 3:00 pm

MAX # 20

LOCATION: Columbia Valley

COST: \$45.00

Things to bring: Lunch, snack and water to drink. Also bring a camera, warm clothes and sunscreen/sunhat.

'Just Add Water' at Edibles Farm + Café

Join the Edibles Farm team for a morning walk through our greenhouses and fields of our NOW certified organic vegetable production. We will discuss the importance of our 100 year old irrigation ditch to the production on our farm. Water plays a vital role in food production and future water management is essential to feeding the Columbia Valley. Also, we will talk about drought resistant gardens, plant material and water saving techniques. To quench your thirst and taste we will serve you a delicious, organic lunch from our farm-to-plate Edibles Café.

Tue May 10th from 11:00 am to 1:00 pm

MAX # 20

LOCATION: Windermere

COST: \$30.00

Kootenay Trout Hatchery – Lake Enid Stocking

The Freshwater Fisheries Society of BC invites you to join in the stocking of Enid Lake, with the release of 750 catchable size Rainbow Trout. One of our knowledgeable interpreters will be on-site to answer all of your fishing and lake stocking questions. Please note that the Fish Truck may be up to 15 minutes late.

Tue May 10th from 11:30 am to noon

MAX # 20

LOCATION: Lake Enid

COST: \$5.00

Flight Planning is for the Birds with Bill Thompson (Lunch Presentation)

During this presentation we will look at the migratory paths of some bird species and find that they are designed to take advantage of prevailing weather conditions. Migration is a feat of endurance. Do birds know something about weather patterns, flight planning and fuel efficiency that airlines don't?

Tue May 10th from noon to 1:30 pm

MAX # 200

LOCATION: Fairmont Hot Springs Resort

COST: \$30.00 (includes lunch & presentation)

Floodplain Wetlands in the Columbia Valley: Vegetation, Frogs and the dynamic forces that influence both - Dr. Suzanne Bayley & Penny Ohanjanian

Suzanne and Penny will take you to three different types of floodplain wetlands and describe the ecology and forces that affect the vegetation and frogs that inhabit the region. We will sample the water, examine the vegetation and biota and possibly dig in the sediment. **Level: moderate**

Tue May 10th from 1:00 pm to 4:00 pm

MAX # 15

COST: \$20.00

LOCATION: Brisco area

Things to bring: water, snack, hat, bug spray, rubber boots, dress for weather

Crazy About Columbia Lake with Tracey Flynn

The Columbia Lake Stewardship Society, a citizen based group interested in the health of Columbia Lake would like to take you on a quick tour of the lake. After a quick overview of the lake from a vantage point mid-lake, we'll head down to the lake and onto a pontoon boat. Our time on the boat will be spent discussing the current condition of Columbia Lake and the challenges and pressures that face it. **Level: moderate, some walking over uneven, steep conditions**



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2015 Wings Week Events • Presentations & Field Trips

TUESDAY MAY 10th

Tue May 10th from 1:00 pm to 4 pm

MAX # 10

LOCATION: Columbia Lake

COST: \$20.00

Things to bring: Water, snack, dress for potentially cooler weather on the lake. Lifejackets provided.

Wetlands Interpretive Walk with Columbia Wetlands Adventure Guides

Join Geologist, Sid Leggett to adventure out on our interpretive loop trail with its breathtaking views of the Canadian Rockies. Follow the meandering boardwalk through marshes, past Heron Rookeries, beside beaver lodges and across a swinging bridge to discover the magic and to learn of the geology of the Columbia River Wetlands. Stunning lunch stops are available in the wetlands or above at the 'Worlds Largest Paddle area. **Level: easy**

Tue May 10th from 2:00 pm to 3:30 pm

MAX # 15

LOCATION: Parsons, BC

COST: \$15.00

What to Bring: Camera, Binoculars, Good Hiking boots, Sketchpad, Outerwear suitable for changing weather conditions. Bring your lunch to enjoy before the walk

From Salter Creek South...or as the locals call it Hither Dither - Drew Bragg

The hike involves following a narrow trail that parallels the western shore of

Lake Windermere on average of about 30 metres above the shoreline with an opportunity to drop down to lake level to check on activity at the mouth of the creek.

Level: Intermediate

Tue May 10th from 2:30 pm to 5:00 pm

MAX # 13

LOCATION: Westside Road

COST: \$15.00

Things to bring: Water, snacks and dress for the weather

Flight of Beer - Arrowhead Brewery Tour

(n.) from the verb flight - a flight is a grouping of similar objects, like a flight of stairs, a flight of geese or flight of BEER.

Make like a flight of geese and migrate over to Invermere Arrowhead Brewery Co. If you love beer and are curious about the plethora of beer options than join us for a 'behind the scenes' tour to learn the background of Arrowhead and its brews. After your tour, enjoy a sample or an entire Flight. Not included in price. Must be 19+

Tue May 10th from 6:15 pm to 7:30 pm

MAX # 15

COST: \$20

LOCATION: Invermere

Things to bring: Beer goggles!

Wetlands, Waterways and Overlooks in the Columbia Valley – Pat Morrow (Evening Presentation)

This multimedia show gives a four season look at photographer Pat Morrow's big back yard, from close up encounters with river otters and birds of prey to hikes and scrambles on either side of the Rocky Mountain Trench that offer goat's eye views of the Purcells and Rockies.

Tue May 10th at 7:00 pm

MAX: 100

LOCATION: Pynelogs Cultural Centre

COST: \$20.00

Flight of Beer - Arrowhead Brewery Tour

(n.) from the verb flight - a flight is a grouping of similar objects, like a flight of stairs, a flight of geese or flight of BEER.

Make like a flight of geese and migrate over to Invermere Arrowhead Brewery Co. If you love beer and are curious about the plethora of beer options than join us for a 'behind the scenes' tour to learn the background of Arrowhead and its brews. After your tour, enjoy a sample or an entire Flight. Not included in price. Must be 19+

Tue May 10th from 7:45 pm to 9:00 pm

MAX # 15

COST: \$20

LOCATION: Invermere

Things to bring: Beer goggles!



Teals and Yellowlegs by Don Delany

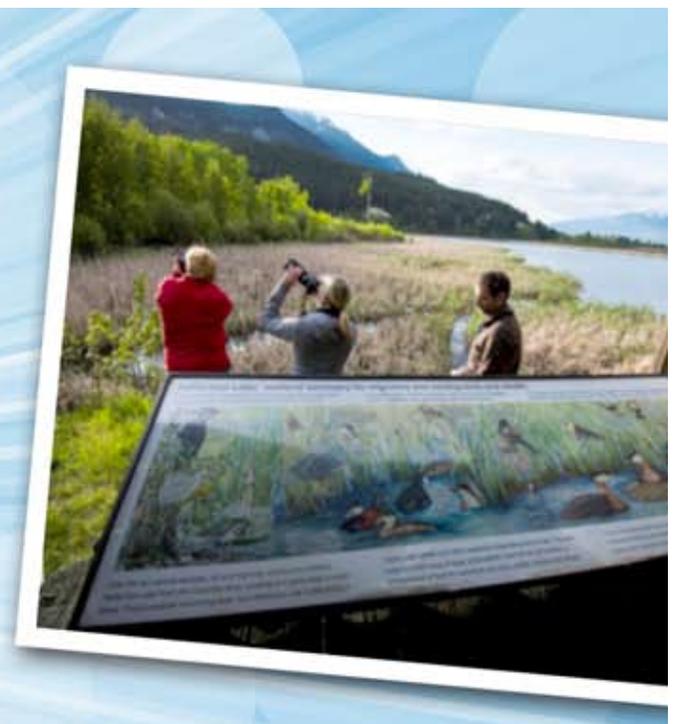
Golden Mountain Festival; Exploring our Rivers and Wetlands May 20-22 2016

The Kicking Horse and Columbia rivers meet at Golden BC where they not only influence the lives of the community today, but have moulded the history of the town of Golden for centuries.

The 2016 Golden Mountain Festival takes place May 20 – 22 and invites visitors to explore and celebrate these magnificent rivers and wetlands. Get onto the rivers and into their stories with fun and fascinating events and activities throughout the weekend including a film festival, a Bird Watching Breakfast, a fun River Battle, music, art exhibits and a weekend long Adventure Scavenger Challenge. The highlight of the weekend on May 21st is an evening with award-winning wilderness

writer and adventure photographer, Bruce Kirkby, also creator, producer, and star of Travel Channel's television series, Big Crazy Family Adventure, whose opening episode features the family paddling from Kimberley to Golden to start their adventure.

For more information visit www.goldenfest.ca



2016 Wings Week Events • Presentations & Field Trips

WEDNESDAY MAY 11th

The Spectacular Fairmont Hoodoos with Daryl Calder from Rocky Mountain Naturalists

Experience the dry bench lands west of the source of the Columbia Headwaters. A wide, improved trail leads visitors up to the rim of the Hoodoos providing great views of Dutch Creek and Columbia Lake. Many birds, including Swifts can be observed. Arrive at 7:30 for early birding around the trailhead; enjoy a nice variety of interesting birds. We'd like to acknowledge the generosity of the Coy & Wilder families for permission to access their private property on this hike. **Level: intermediate**
Wed May 11th from 7:30 am to 11:00 am
MAX # 20
LOCATION: Fairmont
COST: \$15.00
Things to Bring: Water, snack, layered clothing, binocs, camera.

Osprey & Eagle Nests - Cathy Parkes

The Columbia River valley is home to many Osprey and Eagle nesting sites. We will be viewing, without disturbing, several locations in the Columbia Valley. We'll start at Pynelogs and then carpool to a variety of viewing locations. **Level: easy**
Wed May 11th from 8:00 am to 11:00 am
MAX # 15
LOCATION: Invermere and Wilmer area
COST: \$15.00
Things to bring: Binoculars, scopes and cameras

Cruising 4 Curlews – Randy Hopkins

Come along on this visual quest for the sometimes elusive, sometimes right-out-there, Long-billed Curlew. We'll be searching the fields east of Invermere for this shore bird. See why some call it the "sicklebird". **Level: easy**
Wed May 11th from 8:00 am to 11:00 am
MAX # 15
LOCATION: Invermere
COST: \$15.00
Things to bring: Snack & water and dress for the weather

Wetlands Paddle with Kalista Pruden

Experience the world class Columbia Wetlands by canoe/kayak during a morning paddle with local naturalist Kalista Pruden. Discover the secrets of the ecology and morphology of the Columbia Wetlands and its surrounding landscape, along with a touch of local history. Kalista will bring knowledge, enthusiasm and experience to this paddle, providing educational entertainment for all ages and levels of experience. Basic paddling experience necessary. **Level: Intermediate**
Wed May 11th from 9:00 am to 11:00 am
MAX # 24
LOCATION: Invermere Area
COST: \$30 (includes PDF, boats, paddles, guide)
Things to bring: Camera, water & dress for the weather

Bighorn Sheep Educational Virtual Tour - Radium

Come and meet our Bighorn Sheep... this educational virtual tour will help you understand their habits and what makes them so unique. Knowledgeable staff will provide a hands-on experience with props and tools. Tour also includes video and take home printed material. Spend a couple of hours with the Radium Bighorns! Refreshments provided.
Wed May 11th from 10:00 am to noon
MAX # 15
LOCATION: Radium
COST: \$15.00

History of the Hot Springs Tour

Join the BC Rockies Adventures Guide to explore the history behind the hot water. Learn about the early settlers of Fairmont Hot Springs and the Resort's history. **Level: easy**
Wed May 11th from 10:00 am to 11:30 am
MAX # 20
LOCATION: Fairmont Hot Springs
COST: \$15
Things to bring: Dress for the weather

Preventing Algal Blooms – Dr. David Schindler (Lunch Presentation)

In the mid-1970s, Canada, the USA and most European countries developed policies to decrease algal blooms on lakes and associated problems like fish kills and toxic algal blooms, commonly referred to by aquatic scientists

as eutrophication. The policies were based on controlling inputs of one element, phosphorus. Yet today, a half-century later, we hear even more frequent accounts of algal blooms, leading some scientists to call for controlling additional nutrients, such as nitrogen. I will review the success of eutrophication control strategies and describe what needs to be done to control the problem in waters of British Columbia.

Wed May 11th from noon to 1:45 pm
MAX # 125
LOCATION: Copper Point Resort
COST: \$30.00 (includes presentation and lunch)

Living Lakes Canada - Citizen Science and Beyond! – Heather Leschied

Following a presentation, participants will have a hands-on opportunity to collect citizen science data on aquifer availability (groundwater quantity), and benthic macroinvertebrates (bugs that live along the water bottom), and fish ecology (well, fish). Federally certified instructors will demonstrate methods for water science data collection, understanding watershed health, and provide real-life examples of the application of citizen science for decision-making. **Level: Intermediate**
Wed May 11th from noon to 3:00 pm
MAX # 20
LOCATION: Spirits Reach Columbia Lake
COST: \$35.00
Things to bring: hat, sunscreen, notepad/pen, raingear, water. Please organize a bag lunch & snacks. There is no access for food on-site.
Resources (Living Lakes to provide): low end field microscopes (8), kick-net, buckets, fish and macroinvertebrate ID cards, gee-trap and/or seine net, demonstration groundwater well, data sheets, laptop and projector

The Headwaters of the Columbia - Daryl Calder

Explore the unique area, which connects the source of the Columbia River with the Kootenay River. Rocky Mountain Naturalists will guide visitors along a level, improved, interpretive trail at Canal Flats. Contemplate the struggles of David Thompson and William Adolph Baillie Grohman and enjoy the peace and quiet. Curious brushland, lovely clear springs and great birding. **Level: intermediate**
Wed May 11th from 12:30 to 2:00 pm
MAX # 20
LOCATION: Canal Flats
COST: \$15.00
Things to Bring: Water, snack, layered clothing, binocs, camera.

Hiking Edgewater's Back Trails - Herb Cohen

A fairly lengthy hike through the forests and meadows behind Edgewater to several viewpoints overlooking the wetlands, and returning along the Columbia River past several sloughs, the lagoon, and hoodoos. Expect to see raptors, perching birds and (lots of) ducks. **Level: intermediate**
Wed May 11th from 1:00 pm to 4:45 pm
MAX # 12
LOCATION: Edgewater
COST: \$15.00
Things to bring: Bring fluids, a snack and dress to the weather and possibly muddy conditions, if raining. Bring binoculars

Columbia River Paddle with Fairmont Hot Spring's BC Rockies Adventure Guides

Discover the gem of the Columbia Valley with Fairmont Hot Springs Resort's BC Rockies Adventures Guides. Enjoy the fantastic landscape, which includes panoramic views of snow-capped mountains, Hoodoos, eagles, ospreys, mule deer, and fish; all while learning about the importance of wetlands for humans and wildlife. This is a great opportunity for anyone, beginner to expert, to enjoy nature at its best. This is an interpretive tour that involves basic instruction to kayaking. We put in on the South end of Fairmont Hot Springs and paddle to the North end of the community. **Level: easy**
Wed May 11th from 2:00 pm to 4:00 pm
MAX # 12, Ages 12+
LOCATION: Fairmont Hot Springs
COST: \$45
Things to bring: Dress for the weather

Ecological Tour on the Zehnder Ranch – John & David Zehnder

Join us for a walk through the hay fields looking for Long Billed Curlews and other birds, followed by a herding demonstration with John and his Border Collies. Then we will take a walk along Bunyan Lake looking for Painted Turtles, wetland birds, and watch for Mountain Goats along Mount Taynton. The tour will finish with John and David talking about two conservation projects which are helping to protect both wetlands and Mountain Goat habitat on the Ranch. **Level: Intermediate**
Wed May 11th from 2:30 pm to 5:30 pm
MAX # 18
LOCATION: Invermere area
COST: \$20.00
Things to bring: Snack & water and dress for the weather

Swansea Hike – Ceiling of the Valley!

On this hike you will have the chance to view the Columbia Valley from above! This 5-hour trek brings you up the west side of the mountain, where you will experience sporadic vistas while climbing the switch-backed forested trail. Once you reach the top, the reward is a spectacular view up and down the valley. Take some time to soak up the sights, explore the mountaintop and have a snack, all while watching the sunset behind Mt. Nelson, before heading back down to the upper parking lot (15 minute walk). Guests will be driven down to the base (starting point). **Level: expert**
Wed May 11th from 6:00 pm to 10:00 pm
MAX # 20
LOCATION: Invermere Area
COST: \$20.00 (includes snacks & refreshments)
Things to bring: Water, sturdy walking shoes, dress for the weather, walking sticks, camera and bug spray.

Plants of Interest & Interesting Plants (seen thru a macro lens) - Bryan Kelly-McArthur (Evening presentation)

Bryan Kelly-McArthur, a naturalist with primary interest in native plants found in the valley, will help you enjoy some of the more interesting plants, and their flowers and seeds, as well as some visiting insects. All as seen thru a camera macro lens.
Wed May 11th from 7:00 pm to 8:30 pm
MAX # 100
LOCATION: Pynelogs Cultural Centre
COST: \$15.00

Journaling With Your Camera (Part 1) - Pat Morrow (brought to you by Wildsight)

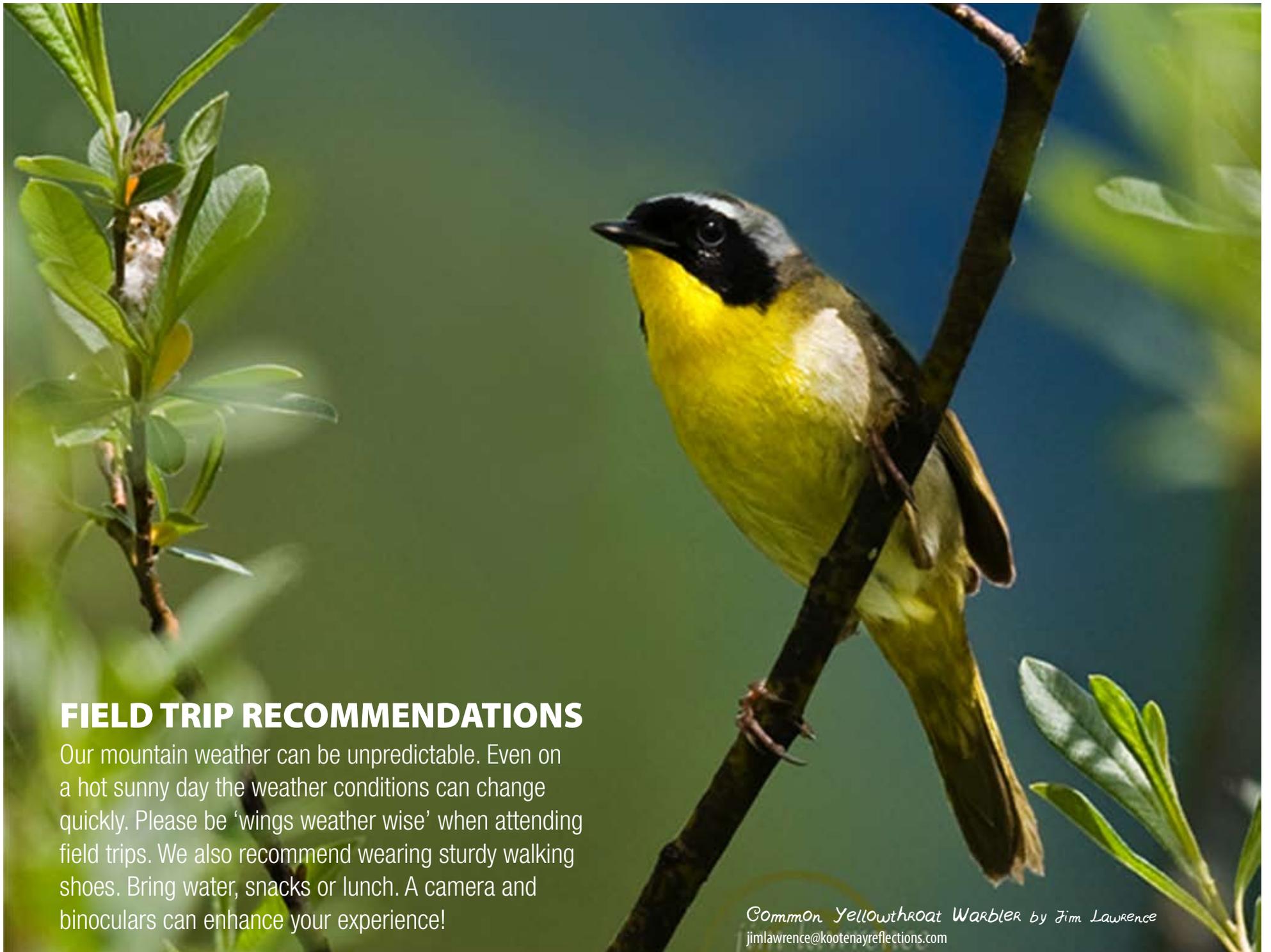
Whether shooting stills or video, your camera is a device that faithfully records the world around you. We'll concentrate on creating a visual diary of your walk in the wetlands, and the best images will become candidates for promoting at next year's Wings Festival.

(Part 1) Wed May 11th from 7:00 pm to 9:00 pm - slide lecture at Pynelogs covering the basics of photography and videography, with examples of how we can put together a story even on a short outing AND
(Part 2) Thu May 12th (next day) from 8:00 am to 3:00 pm - drive to Wilmer Wetlands for a moderate hike, returning around noon to load the images onto your laptops and share your stories via a group critique.
MAX # 12
LOCATION: Invermere/Wilmer
COST: \$40.00
Things to bring: video or still camera, tripod, flash, basic hiking needs including water, snacks, good hiking footwear.

Wings 2016

Festival At A Glance

Pull Out Section



FIELD TRIP RECOMMENDATIONS

Our mountain weather can be unpredictable. Even on a hot sunny day the weather conditions can change quickly. Please be 'wings weather wise' when attending field trips. We also recommend wearing sturdy walking shoes. Bring water, snacks or lunch. A camera and binoculars can enhance your experience!

Common Yellowthroat Warbler by Jim Lawrence
jimlawrence@kootenayreflections.com

Wings Over the Rockies Festival

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Check out our website for:

- Interesting articles • Tourism information • Up to Date Exciting NEWS
- Details on our Presenters & Event Leaders





**Registration
Required for all
Events**

**Registration
Starts on
April 11th**

HOW TO REGISTER

24-Hour Online
www.wingsovertherockies.org

Booking on-line is the fastest and most efficient method for Registration

Telephone

1-855-342-2473 toll free

250-342-2473 local • Please see hours below

Walk-in

Pynelogs Cultural Centre • Next to Kinsmen Beach, Invermere, BC

Please see hours below

Hours

**For Walk-In & Telephone
Registration**

Monday April 11
9am to 1pm

April 14 to May 5

Mondays & Thursdays 11am to 1pm

Monday May 9

9am to 1pm

May 10 to May 14

Daily from 11am to 1pm

General Enquiries

registrations@wingsovertherockies.org

Refund Policy: All Wings Over the Rockies events and activities are non-refundable after April 27, 2016. In the event that Wings organizers must cancel an activity or event a full refund will apply. Like water off a duck's back, scheduled events will go rain or shine.

Time	Monday • May 9	Tuesday • May 10	Wednesday • May 11
7:00		• Birding by Golf Cart	
7:30	• Take A Walk On The Westside with the Westside Legacy Trail • Moberley Meander • K2 Ranch Birding Excursion	• How Forestry Manages Riparian Habitat for Birdlife	• The Spectacular Fairmont Hoodoos (Rocky Mountain Naturalists)
8:00	• Birding for Dummies	• "All day" Exploration Blitz: South • Wacky Waterbirds!	• Osprey & Eagle Nests • Cruising 4 Curlews
8:30			
9:00	• Swansea Hike – Ceiling of the Valley! • Source of the Columbia • Catch-as-Catch-Can		• Wetlands Paddle with Kalista Pruden
9:30	• Biking and Birding • Columbia Lake Paddle & Picnic	• Invermere to Radium BBQ Lunch on the River Paddle	
10:00		• The Path to the Perfect Cup: Kicking Horse Coffee Facility Tour • Lower Bugaboo Falls Hike (Columbia Valley Greenways Trail Alliance) • Wetlands Interpretive Walk with Columbia Wetlands Adventure Guides	• Bighorn Sheep Educational Virtual Tour • History of the Hot Springs Tour
10:30		• Upper Columbia Watershed Tour (Lake Windermere Ambassadors)	
11:00		• 'Just Add Water' at Edibles Farm + Cafe	
11:30		• Kootenay Trout Hatchery – Lake Enid Stocking	
12:00	• Columbia Wetlands Waterbird Survey	• Flight Planning is for the Birds with Bill Thompson (Lunch Presentation)	• Preventing Algal Blooms – Dr. David Schindler (Lunch Presentation) • Living Lakes Canada - Citizen Science and Beyond!
12:30			• The Headwaters of the Columbia (Rocky Mountain Naturalists)
1:00	• Grohman's Dream • Old Coach Trail Interpretive Walk	• Floodplain Wetlands in the Columbia Valley: Vegetation, Frogs and the dynamic forces that influence both • Crazy About Columbia Lake	• Hiking Edgewater's Back Trails
1:30			
2:00	• Exploring the Edgewater Flume	• Wetlands Interpretive Walk with Columbia Wetlands Adventure Guides	• Columbia River Paddle with Fairmont Hot Spring's BC Rockies Adventure Guides
2:30		• From Salter Creek South...or as the locals call it Hither Dither	• Ecological Tour on the Zehnder Ranch
3:00	• Water Water Everywhere (Afternoon-break Presentation)		
5:00	• Guided Evening Columbia River Trip – Radium to Edgewater		
6:00	• Mainstreams Environmental Stream Trailer Demo	• 6:15 Flight of Beer - Arrowhead Brewery Tour	• Swansea Hike – Ceiling of the Valley!
7:00	• Come Hell & High Water with Bob Sandford (Evening Presentation)	• Wetlands, Waterways and Overlooks in the Columbia Valley – Pat Morrow (Evening Presentation)	• Plants of Interest & Interesting Plants (seen thru a macro lens) - Bryan Kelly-McArthur (evening presentation) • Journaling With Your Camera (Part 1) - Pat Morrow
7:45		• Flight of Beer - Arrowhead Brewery Tour	

Thursday • May 12	Friday • May 13	Saturday • May 14	Sunday • May 15
• Birding by Golf Cart	• Intro to Waterfowl Watching		
	• Wilmer Wetland Experience		
• Exploring Columbia Lake Lot 48: A Ramble with Richard Klafki, Hillary Page and Cameron Gillies • Journaling With Your Camera (Part 2) - Pat Morrow • Dippers & Ducks	• Birding for Dummies • "All day" Exploration Blitz: North	• Dippers & Ducks • Kootenay Park (Car) Birding	
• LakeKeepers Workshop (Day 1) Heather Leschied, Rick Nordin & David Schindler (two-day workshop)	• LakeKeepers Workshop (Day 2) Heather Leschied, Rick Nordin & David Schindler (two-day workshop)		• The Bird & the Birder Wetlands Paddle with David Bird & Randy Hopkins
• Ducks (and Other Birds) For Beginners	• The Birds of Wasa Lake & Bummers Flats		• Wonders of Windermere with Cam Gillies & Michael den Otter • Ecological Tour on the Zehnder Ranch
• Guided River Tour of the Upper Columbia Wetlands to Lake Windermere • Nature Walk on the Bella Vista Walking Trail • Birds & Photography	• Invermere to Radium BBQ Lunch on the River Paddle	• Early Reflections with Bob Walker	
• Bighorn Sheep Educational Virtual Tour • The Path to the Perfect Cup: Kicking Horse Coffee Facility Tour	• Plate Tectonics & the Columbia River Wetlands • Lake Enid: Finding a Balance	• Can Drones Help Our Bird Populations? with Emeritus Professor David Bird (mid-morning snack event) • Water Monsters & Dinosaurs: A Family Wetland Exploration • In Search of Moraine with Ron Grams • Lake Enid Family Walk with Kim Urbaniak (Hosted by Wildsight Invermere)	• Water Monsters & Dinosaurs: A Family Wetland Exploration
• Historic K2 Ranch Village Walk		• Lake Windermere Pontoon Boat Tour with Pete & The Lake Windermere Ambassadors	• Wings, Rockies and Wine & Cheese with Ron Grams (Geologist – 'Spill Billy')
		• Stand Up Paddle (SUP) Tour of the Columbia Wetlands • The Spirit Trail Story	
• Transforming Our World: Water, Equity, Justice and Reconciliation In Reconsideration of The Columbia River Treaty with Bob Sandford (Lunch Presentation)	• Beaver, Nutrients and Changing Water Levels in Western Marshes and Shallow Lakes with Dr. Suzanne Bayley (Lunch Presentation)		• How Birds Do It! with Emeritus Professor David Bird (Lunch Presentation)
• Historic K2 Ranch Village Walk			• The 'Bear Smart Community' Project with Andrea Smillie, WildSafeBC & Conservation Officer Service
• Nature Walk on the Bella Vista Walking Trails • In Relationship with Nature: Applied Eco-psychology 101 with Natalie Forrest	• The Birds of Wasa Lake & Bummers Flats	• The Land of Smoking Waters with Patrick Tolchard • Paper Mache Birds Workshop at Black Star Studios • Lake Windermere Pontoon Boat Tour with Pete & The Lake Windermere Ambassadors • Water Wonders with Wildsight's Education Team	• The Land of Smoking Waters with Patrick Tolchard • Source to Sea: Stories & Films of the Columbia River with the Columbia Basin Transboundary Youth Network
• Akisqnuq First Nation Cultural Welcome to the Wetlands • Birds & Photography			
• Columbia River Paddle with Fairmont Hot Spring's BC Rockies Adventure Guides	• The Role of Water in Shaping the Fairmont Economy	• A Child's View of the Birds (Family Event) – Emeritus Professor David Bird	• Project Take Flight Raptor Rehabilitation Flight Cage Open House with Mark Zehnder & Judy Burns
• Forensic Investigation: Wildlife Identification, Diseases and more			
	• The Rapture of Raptors - Emeritus Professor David Bird & Cam Gillies • Creatures of the Stream Bottom (A day at Mussel Beach?)		
		• 20th Annual Gala Event & Keynote A Gala Banquet Celebrating "Reflections on Water" with Keynote Speaker Dr. David Schindler	
• 6:30 Water Under the Microscope (Water creatures wild and small?) with Rick Nordin			
LIVE at Pynelogs THE WARDENS (2 shows at 6:30 & 8:30) Return from last year's Sold-Out Show	Double-Event Evening Presentation • A Travel Writer With a Birding Habit – Carol Patterson • Wild Moments with Jim Lawrence from Kootenay Reflections Photography		

Family Friendly Events are highlighted in RED

Meeting Place & Directions for events will be forwarded in email Confirmation

Map of the Columbia Valley



Approximate driving time in minutes from Invermere to:

Edgewater	20	Canal Flats	30
Golden	75	Wasa	60
Windermere ...	10	Kimberley	90
Fairmont	20		

Driving directions and meeting information will be forwarded with booking confirmation.

20TH ANNUAL GALA
Banquet & Keynote



A Gala Banquet with
 Keynote Speaker
Dr. David Schindler
*Protecting Canada's
 Freshwaters in the 21st
 Century*

David Schindler is an internationally celebrated scientist who has led efforts to protect fresh water resources in Canada and around the world. He will examine the major factors threatening Canada's freshwater lakes, rivers and wetlands and envision the inevitable tradeoffs between conservation and economics.

Sat May 14th at Copper Point Resort

5:00 Refreshments

6:30 Dinner

8:00 Live Auction & finale of the Silent Auction

8:30 Keynote Event

MAX # 180

Cost \$75 (partial tax receipt provided)

Interviews from Dorothy Lake

fitchparkes

THE WARDENS
 MUSIC | STORIES | MOUNTAIN CULTURE

BEAR 66

LIVE at Pynelogs – 2 Shows
 Return from last year's Sold-Out Show

All-new music and stories from the backcountry of the Canadian Rockies. Superb musicianship, haunting vocals and chilling tales from three men who spent their careers in the most rugged of all places. The Wardens - Scott Ward, Bradley Bischoff and Ray Schmidt share rich stories - from protecting Grizzly bears to rescuing stranded hikers to lonely nights on the trail. These "men for the mountains" share a special blend of music and storytelling from Canada's richest wilderness.

Thu May 12th at 6:30 pm & 8:30 pm
 \$20.00 Pre-registration required
 Pynelogs Cultural Centre – Licensed Premises

Tourism Golden Presents
2016 Golden Mountain Festival
 Exploring Our Rivers & Wetlands

May 20th - 22nd 2016

Featuring writer and adventure photographer Bruce Kirkby, plus the following event highlights:

- Weekend Adventure Activities
- Bird Watching Breakfast
- Adventure Scavenger Challenge
- Film Festival & Musical entertainment

For a full schedule of activities and events visit www.Goldenfest.ca

2015 Wings Week Events • Presentations & Field Trips

THURSDAY MAY 12th

Birding by Golf Cart with Fairmont Hot Springs' BC Rockies Adventure Guides

Join the BC Rockies Adventures guides for the most relaxing birding tour offered! Ride on golf carts through Riverside Golf Course and discover the plentiful bird life and wildlife that inhabit the golf course grounds. Spot nesting pairs of Lewis's Woodpecker, baby eagles and a variety of waterfowl.

Level: easy

Thu May 12th from 7:00 am to 9:00 am

MAX # 20

LOCATION: Fairmont Hot Springs

COST: \$30 (includes a hot drink and a muffin)

Things to bring: Dress for the weather

Exploring Columbia Lake Lot 48: A Ramble with Richard Klafki, Hillary Page and Cameron Gillies

Enjoy a relaxed and informative walk through picturesque Columbia Lake - Lot 48, located on the shores of Columbia Lake. Richard Klafki, Hillary Page and Cam Gillies will share their insights about the plants, birds and other wildlife that inhabit this Nature Conservancy Canada conservation area. Participants will also witness the results of recent grassland restoration efforts.

Level: Easy

Thu May 12th from 8:00 am to 11:00 am

MAX # 20

LOCATION: Fairmont Hot Springs area

COST: \$15

Things to bring: Binoculars, snack, water, hat, sunscreen, good walking/hiking footwear, rain coat (just in case)

Journaling With Your Camera (Part 2) - Pat Morrow (brought to you by Wildsight)

Whether shooting stills or video, your camera is a device that faithfully records the world around you. We'll concentrate on creating a visual diary of your walk in the wetlands, and the best images will become candidates for promoting at next year's Wings Festival.

(Part 1) Wed May 11th from 7:00 pm to 9:00 pm - slide lecture at Pynelogs covering the basics of photography and videography, with examples of how we can put together a story even on a short outing AND

(Part 2) Thu May 12th (next day) from 8:00 am to 3:00 pm

- drive to Wilmer Wetlands for a moderate hike, returning around noon to load the images onto your laptops and share your stories via a group critique.

MAX # 12

LOCATION: Invermere/Wilmer

COST: \$40.00

Things to bring: video or still camera, tripod, flash, basic hiking needs including water, snacks, good hiking footwear.

Dippers & Ducks - Randy Hopkins

Take a drive up the road to Panorama and help search for the fascinating and elusive diving birds that inhabit this rollicking mountain creek. Bring lots of patience and your best eyesight to spot the Harlequin Ducks and American Dippers who make their home in this amazing watery environment.

Level: easy

Thu May 12th from 8:00 am to 11:30 am

MAX # 15

LOCATION: Panorama area

COST: \$15.00

LakeKeepers Workshop (Day 1) - Heather Leschied, Rick Nordin & David Schindler (two-day Workshop)

Co-led by Heather Leschied of Living Lakes Canada, Rick Nordin of the BC Lake Stewardship Society, and world-renowned scientist Dr. David Schindler, this workshop is for the curious, passionate and emerging lake steward. LakeKeepers certification incorporates both classroom and on-water lessons, including limnology (the study of freshwater), water monitoring skills, and understanding results. Participants will gain the knowledge and confidence to participate in lake monitoring programs, caring for the lakes they love.

Level: intermediate

(Day 1) Thu May 12th from 8:30 am to 4:30 pm & (Day 2) Fri May 13th from 8:30 am to 12:30 pm

MAX # 17

LOCATION: Spirits Reach Columbia Lake

COST: \$60.00

1.5 days total

• Day 1 Am - classroom (Columbia Ridge Community Hall)

• Day 1 Pm - 2 pontoon boats, lifejackets (via Spirits Reach)

• Day 2 Am - in depth look at samples, results, interpretation (Columbia Ridge Community Hall)

Things to bring: hat, sunscreen, notepad/pen, raingear, water. Please organize a bag lunch & snacks. There is no access for food on-site.

Resources (Living Lakes and BC Lake Stewardship Society to provide): low end field microscopes (8), digital microscope, Van Dorn bottle, secchi disk, sample bottles, water quality meters (pH, conductivity, turbidity, DO Hach kit, temperature), aquatic plant ID books, laptop and projector, manuals (for purchase @ \$40)

Ducks (and Other Birds) For Beginners - Herb Cohen

A Leisurely hike to the lagoon and various sloughs (ponds) along the Columbia River behind Edgewater. The outing will be geared to novice bird watchers, though anyone who wants to familiarize themselves with the area is welcome.

Level: easy

Thu May 12th from 9:00 am to 11:45 am

MAX # 13

LOCATION: Edgewater

COST: \$15.00

Things to bring: Binoculars, spotting scope, dress for the weather. Fluids and snack.

Guided River Tour of the Upper Columbia Wetlands to Lake Windermere

Our knowledgeable and highly skilled guides will lead you through this spectacular and scenic body of water, as you discover intricate facts about this great North American river and its ecologically important wetlands, along with its abundant birds, fish, reptiles and mammals. Historical, geographical and geological information will be shared and discussed along the length of this brilliant waterway.

A perfect accompaniment to this trip is the Akisqnuq First Nation Cultural Welcome event. Separate registration required. Basic paddling experience necessary.

Level: easy

Thu May 12th from 9:30 am to 1:00 pm

MAX # 24

LOCATION: Fairmont Hot Springs area

COST: \$65.00 (includes PDF, boats, paddles, guide and return transportation)

Things to bring: lunch, water

Nature Walk on the Bella Vista Walking Trails - Bryan Kelly-McArthur

Enjoy a 3-hour nature walk with possible orchid and lily sightings on the trail systems at Bella Vista Estates above Lake Columbia. The season will be somewhat early for orchids and lilies, and plants in general, but there will be some early ones for you to enjoy. There will be an introduction and sharing with any insects or spiders that may be up and about.

Level: intermediate

Thu May 12th from 9:30 am to 12:30 pm

MAX # 5

LOCATION: Columbia Lake

COST: \$15.00

Things to Bring: weather suitable clothing, water, snacks, identification books and camera

Birds & Photography - Don Delaney & Doug Yukes

Walk and talk about marsh and lakeside birds and bird photography with Don Delaney, avid birder and photographer and Invermere resident and hiker Doug Yukes. Observe early marsh and lake birds as you walk. Don will provide information on species of the birds observed on Lake Enid or along the shore and also give some tips on photographing different types of birds. The importance of wetlands, lakes, streams, and ponds to the species observed will be discussed along the way.

Level: easy

Thu May 12th from 9:30 am to 12:30 pm

MAX # 15

LOCATION: Invermere area

COST: \$15.00

Things to bring: Binoculars, camera, water, hat and sunscreen and rubber boots.

Bighorn Sheep Educational Virtual Tour - Radium

Come and meet our Bighorn Sheep... this educational virtual tour will help you understand their habits and what makes them so unique. Knowledgeable staff will provide a hands-on experience with props and tools. Tour also includes video and take home printed material. Spend a couple of hours with the Radium Bighorns!

Thu May 12th from 10:00 am to noon

MAX # 15

LOCATION: Radium

COST: \$15.00



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2015 Wings Week Events • Presentations & Field Trips

THURSDAY MAY 12th

The Path to the Perfect Cup: Kicking Horse Coffee Facility Tour

Did you ever wonder how coffee gets magically transformed, from that tree on the other side of the world, to that delectable and delicious cup you can't seem to start your day without? Come join our coffee "experts" for a rare glimpse inside our facility as we walk you through that transformation. See for yourself what makes Kicking Horse Coffee, Canada's number one Organic Fair Trade Coffee Company!

Thu May 12th from 10:00 am to 11:30 am

MAX # 12

LOCATION: Invermere

COST: \$15.00

Things to know: The tour takes place within a working production facility; all tour participants must be pre-registered, are subject to prior approval and may be required to sign a non-disclosure form. Cameras, (including cell phones or personal devices with camera capabilities), open-toed/open-heeled shoes or high heels will not be permitted in production areas.

Historic K2 Ranch Village Walk

Take a leisurely guided stroll around the historic and restored ranch buildings, including a 100 year old, still operating blacksmith shop; a large historic barn (home to many many barn dances) and several historic and period ranch houses dating from the glory years of cattle ranching in the Columbia Valley. Treats and coffee. **Level: easy**

Thu May 12th from 10:30 am to 11:30 am

MAX # 13

LOCATION: K2 Ranch Village

COST: \$15.00 (includes treats & coffee)

Things to bring: dress for the weather

Transforming Our World: Water, Equity, Justice and Reconciliation In Reconsideration of The Columbia River Treaty with Bob Sandford (Lunch Presentation)

Aboriginal peoples in British Columbia have made it clear that the road is open for reconciliation and for inclusive collaboration on a better, more secure, more just and ultimately far more sustainable future for all. This presentation argues that that collaboration should begin with water; with the Columbia; and with reconsideration of the Columbia River Treaty.

Thu May 12th from noon to 1:30 pm

MAX # 50

LOCATION: Fairmont Hot Springs Resort

COST: \$30.00 (includes lunch & presentation)

Historic K2 Ranch Village Walk

Take a leisurely guided stroll around the historic and restored ranch buildings, including a 100 year old, still operating blacksmith shop; a large historic barn (home to many many barn dances) and several historic and period ranch houses dating from the glory years of cattle ranching in the Columbia Valley. Treats and coffee. **Level: easy**

Thu May 12th from 12:30 pm to 1:30 pm

MAX # 13

LOCATION: K2 Ranch Village

COST: \$15.00 (includes treats & coffee)

Things to bring: dress for the weather

Nature Walk on the Bella Vista Walking Trails - Bryan Kelly-McArthur

Enjoy a 3-hour nature walk with possible orchid and lily sightings on the trail systems at Bella Vista Estates above Lake Columbia. The season will be somewhat early for orchids and lilies, and plants in general, but there will be some early ones for you to enjoy. There will be an introduction and sharing with any insects or spiders that may be up and about.

Level: intermediate

Thu May 12th from 1:00 pm to 4:00 pm

MAX # 5

LOCATION: Columbia Lake

COST: \$15.00

Things to Bring: weather suitable clothing, water, snacks, identification books and camera

In Relationship with Nature: Applied Eco-psychology 101 with Natalie Forrest

This workshop is for people who love interacting with Nature. In this casual interactive workshop and discussion, we'll explore some of the basic concepts in applied eco-psychology and how that aids feelings of peace and contentment. "Thousands of tired, nerve-shaken, over-civilized people are beginning to find out that going to the mountains is going home: that wildness

is a necessity" John Muir

We will be exploring a natural area in Invermere armed with notebooks, insights and techniques for being more in contact with nature. This will be a mix of outdoor time to explore and time for discussion, questions and sharing.

All Levels welcome

Thu May 12th from 1:00 pm to 3:00 pm

MAX # 10

LOCATION: Invermere Area

COST: \$30.00

Things to bring: notebook, pen and dress for the weather

Akisknuk First Nation Cultural Welcome to the Wetlands

Enjoy a traditional welcome to the shores of the Akisknuk First Nation with drumming, dancing, legends and a traditional fry bread snack. The wetlands of this area offer numerous sightings of birds and provide photo opportunities, feel free to stay longer if you wish. **Level: Easy**

Thu May 12th from 1:30 pm to 3:30 pm

MAX # 50

LOCATION: Windermere

COST: \$20.00 (includes snack)

Things to bring: Water and dress for the weather

Birds & Photography - Don Delaney & Doug Yukes

Walk and talk about marsh and lakeside birds and bird photography with Don Delaney, avid birder and photographer and Invermere resident and hiker Doug Yukes. Observe early marsh and lake birds as you walk. Don will provide information on species of the birds observed on Lake Enid or along the shore and also give some tips on photographing different types of birds. The importance of wetlands, lakes, streams, and ponds to the species observed will be discussed along the way. **Level: easy**

Thu May 12th from 1:30 pm to 4:30 pm

MAX # 15

LOCATION: Invermere area

COST: \$15.00

Things to bring: Binoculars, camera, water, hat, sunscreen and rubber boots.

Columbia River Paddle with Fairmont Hot Spring's BC Rockies Adventure Guides

Discover the gem of the Columbia Valley with Fairmont Hot Springs Resort's BC Rockies Adventures Guides. Enjoy the fantastic landscape, which includes panoramic views of snow-capped mountains, Hoodoos, eagles, ospreys, mule deer, and fish; all while learning about the importance of wetlands for humans and wildlife. This is a great opportunity for anyone (beginner to expert) to enjoy nature at its best. This is an interpretive tour that involves basic instruction to kayaking. We put in on the South end of Fairmont Hot Springs and paddle to the North end of the community. **Level: easy**

Thu May 12th from 2:00 pm to 4:00 pm

MAX # 12, Ages 12+

LOCATION: Fairmont Hot Springs

COST: \$45

Things to bring: Dress for the weather

Forensic Investigation: Wildlife Identification, Diseases and more... Stan Markham

Join a retired Conservation Officer for an enjoyable and informative walk along Lake Windermere and into the adjoining forest. During this hike you will see and learn how to identify many different signs and species of wildlife. We will also discuss hybrids, diseases and parasites that affect wildlife both locally and internationally. In addition to these numerous topics, Stan will discuss how forensic techniques are used in wildlife law enforcement. **Level: easy**

Thu May 12th from 2:30 pm to 5:30 pm

MAX # 20

LOCATION: Invermere

COST: \$15.00

LIVE AT PYNELOGS - THE WARDENS

(2 shows: 6:30 pm and 8:30 pm)

Return from last year's Sold-Out Show

All-new music and stories from the backcountry of the Canadian Rockies. Superb musicianship, haunting vocals and chilling tales from three men who spent their careers in the most rugged of all places. The Wardens - Scott Ward, Bradley Bischoff and Ray Schmidt share rich stories - from protecting Grizzly bears to rescuing stranded hikers to lonely nights on the trail. These "men for the mountains" share a special blend of music and storytelling from Canada's richest wilderness.

Thu May 12th at 6:30 pm and 8:30 pm

MAX # 100

COST: \$20.00

LOCATION: Pynelogs Cultural Centre - Licensed Premises

"The Wardens were absolutely fantastic. The running slideshow of beautiful National Parks added to the history and stories presented by their music. Professional, funny and extremely talented." Erin Sokoloski - The Delta Lodge at Kananaskis

Water Under the Microscope (Water creatures wild and small?) - Rick Nordin

Water has an astonishing community of organisms living in it. This demonstration will display the tiny plants and animals living in the plankton of Lake Windermere. Graceful and beautiful as well as strange and amazing life forms will be shown through a microscope with a digital sensor and projector. Bring your own samples to see what fascinating creatures live in your lake or stream magnified thousands of times their actual size.

Thu May 12th from 6:30 pm to 7:30 pm

MAX # 15

LOCATION: Pynelogs Cultural Centre

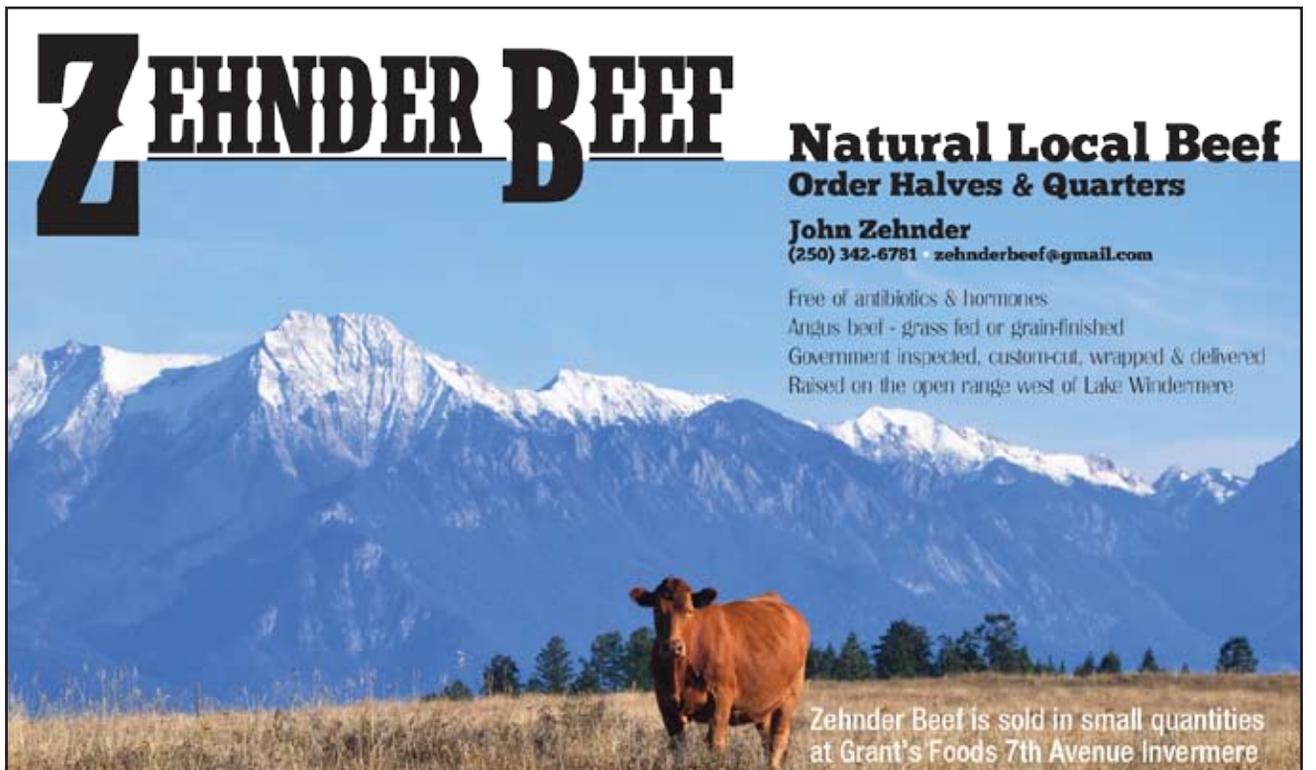
COST: \$10.00

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2015 Wings Week Events • Presentations & Field Trips

FRIDAY MAY 13th

Introduction to Waterfowl Watching with Shelagh Wrazej

Join Shelagh Wrazej, a biologist with Parks Canada to travel to various wetlands to look for waterfowl and key points on identification, breeding behaviour etc. **Level: easy**

Fri May 13 from 7:00 am to 10:00 am

MAX # 15

LOCATION: Invermere & Radium areas

COST: \$20.00

Things to bring: water, snack, binoculars and spotting scope if you have one, dress for the weather

Wilmer Wetland Experience with Sherry Dewey & John Pitcher

Join local enthusiasts Sherry Dewey and John Pitcher for a walk to the Wilmer Wildlife Area, in the ecologically rich Columbia River Wetlands. The trail makes its way down to the wetlands and loops back through open Douglas fir forest. As well as waterfowl and Bald Eagles, various grassland species such as Savannah Sparrow, Vesper Sparrow, Meadowlark and Mountain Bluebird have been spotted here in May. Sturdy footwear is a must as we will be walking on game trails and possibly through mud. Some elevation gain and loss.

Level: Intermediate.

Fri May 13th from 7:30 am to 10:30 am

MAX # 16

LOCATION: Invermere area

COST: \$20.00

Things to bring: Dress for the weather and bring water and a snack. Sturdy footwear is a must as we will be walking on game trails and possibly through mud. Some elevation gain and loss.

Birding for Dummies - Cathy Parkes

Can't tell an Owl from an Albatross? Do you feel intimidated by experienced birders? We will get familiarized with the tools of the trade and help learn to identify the birds you see. **Level: Easy**

Fri May 13th from 8:00 am to 11:00 am

MAX # 15

LOCATION: Invermere area

COST: \$15.00

Things to bring: Bring binoculars and field guides, but they are not required for this event.

"All day" Exploration Blitz: North – Randy Hopkins

"All Day?" Well, most of the day at least. Join Randy on a fast paced trip following the Columbia River valley from Invermere north to the Brisco wetlands and Spillimacheen area. We'll be covering as much habitat as time permits, from wetlands to forests, from fields to mountain lakes. Bring along a lunch and your enthusiasm for birds! **Level: challenging**

Fri May 13th from 8:00 am to 4:30 pm

MAX # 15

LOCATION: Columbia Valley area

COST: \$30.00

Things to bring: Water & a snack. Dress for the weather

LakeKeepers Workshop (Day 2) – Heather Leschied, Rick Nordin & David Schindler (two-day workshop)

Co-led by Heather Leschied of Living Lakes Canada, Rick Nordin of the BC Lake Stewardship Society, and world renowned scientist Dr. David Schindler,

this workshop is for the curious, passionate and emerging lake steward.

LakeKeepers certification incorporates both classroom and on-water lessons, including limnology (the study of freshwater), water monitoring skills, and understanding results. Participants will gain the knowledge and confidence to participate in lake monitoring programs, caring for the lakes they love.

Level: intermediate

(Day 1) Thu May 12th from 8:30 am to 4:30 pm & (Day 2) Fri

May 13th from 8:30 am to 12:30 pm

MAX # 17

LOCATION: Spirits Reach Columbia Lake

COST: \$60.00

1.5 days total

• **Day 1 Am – classroom (Columbia Ridge Community Hall)**

• **Day 1 Pm – 2 pontoon boats, lifejackets (via Spirits Reach)**

• **Day 2 Am – in depth look at samples, results, interpretation (Columbia Ridge Community Hall)**

Things to bring: hat, sunscreen, notepad/pen, raingear, water. Please organize a bag lunch & snacks. There is no access for food on-site.

Resources (Living Lakes and BC Lake Stewardship Society to provide): low end field microscopes (8), digital microscope, Van Dorn bottle, secchi disk, sample bottles, water quality meters (pH, conductivity, turbidity, DO Hach kit, temperature), aquatic plant ID books, laptop and projector, manuals (for purchase @ \$40)

The Birds of Wasa Lake & Bummers Flats – Dean Nicholson

The Wasa Lake and Bummers Flats area is one of the best birding sites near Cranbrook. We will look for a variety of migrating waterfowl, shorebirds and gulls, as well as returning warblers, swallows and hummingbirds. On past walks we have seen over 50 species of birds. Highlights of past years include over 1500 Long-billed Dowitchers, Sandhill Cranes, Black-necked Stilts, White-faced Ibis and five of our six local swallows sitting together on a power line. This is a walk where anything can show up and something unusual always does. **Level: easy**

Fri May 13th from 9:00 am to noon

MAX # 12

LOCATION: Wasa

COST: \$15.00

Things to bring: Water & a snack. Dress for the weather

Invermere to Radium BBQ Lunch on the River Paddle

On this 3 to 5 hour flat-water paddle from Invermere to Radium Hot Springs (17 km) you will spend a leisurely morning on the Columbia River exploring the local waterways. The Columbia River Wetlands lure more than 250 species of birds. Eagles, ospreys and herons are common site throughout the season as are various species of wildlife. A delicious open fire BBQ lunch will be served riverside. Vegetarian option will be available. Basic paddling experience necessary. **Level: easy**

Fri May 13th from 9:30 am to 2:30 pm

MAX # 36

LOCATION: Invermere

COST: \$65.00 (includes PDF, boats, paddles, guide, BBQ lunch, and return transportation)

Things to bring: Camera, water & dress for the weather

Plate Tectonics & the Columbia River Wetlands - Ron Grams & Karen Reid

A scenic hike through a historic wetlands property near Spillimacheen. We'll discuss the geo-tectonic origin of the Columbia River Valley, some pioneering trivia and investigate various components of the wetlands ecosystem.

Level: Intermediate

Fri May 13th from 10:00 am to 1:30 pm

MAX # 10

LOCATION: Spillimacheen

COST: \$20

Things to bring: Light hiking gear, camera & binoculars. Involves some occasional light bush whacking.

Lake Enid: Finding a Balance with Phil Burke & Baiba Morrow (Hosted by Wildsight Invermere)

With its spectacular mountain backdrop, Lake Enid has long been a favourite recreation site for locals and visitors alike. Consequently, heavy motorized use has damaged the sensitive grasslands and bogs. Join longtime range agrolgist, Phil Burke, on an interpretive walk of the area and find out how the efforts of our local environmental group, Wildsight, have transformed a damaged riparian area with their Lake Enid Restoration Project.

Level: Moderate

Fri May 13th from 10:00 am to 12:30pm

MAX # 15

LOCATION: Lake Enid area

COST: \$20.00

What to Bring: Good walking shoes, rain gear, if necessary

Beaver, Nutrients and Changing Water Levels in Western Marshes and Shallow Lakes with Dr. Suzanne Bayley (Lunch Presentation)

Dr. Bayley will describe the interactions of changing water levels, changing nutrient supply and beavers on the Columbia wetlands and open water wetlands in western Canada. Climate warming is reducing the water levels in lakes and wetlands, changing vegetation patterns and increasing the loss of wetlands. Beavers moderate the effects of climate warming, helping to preserve wetlands. As water levels decline, nutrient concentrations increase leading to rich productive waters often with abundant algae or submersed aquatic plants (weeds). Wetlands are dynamic, complex ecosystems that support abundant plants and animals and make the Columbia Valley a high quality place to live and recreate.

Fri May 13th from noon to 1:45 pm

MAX # 125

LOCATION: Invermere

COST: \$30.00 (includes lunch & presentation)

The Birds of Wasa Lake & Bummers Flats – Dean Nicholson

The Wasa Lake and Bummers Flats area is one of the best birding sites near Cranbrook. We will look for a variety of migrating waterfowl, shorebirds and gulls, as well as returning warblers, swallows and hummingbirds. On past walks we have seen over 50 species of birds. Highlights of past years include over 1500 Long-billed Dowitchers, Sandhill Cranes, Black-necked Stilts, White-faced Ibis and five of our six local swallows sitting together on a power line. This is a walk where anything can show up and something unusual always does. **Level: easy**

Fri May 13th from 1:00 pm to 4:00 pm

MAX # 12

LOCATION: Wasa

COST: \$15.00

Things to bring: Camera, water & dress for the weather



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FRIDAY MAY 13th

The Role of Water in Shaping the Fairmont Economy – A Hike with Bill Thompson

Over the past 100 years the Fairmont area has transitioned from an agriculture-based economy to one based on tourism. Water has played an important role in that adjustment. This seven-kilometer hike will take us to sites that illustrate how water was used by early settlers to its application to today's needs. **Level: Moderate**

Fri May 13th from 2:00 to 5:00 pm

MAX # 15

LOCATION: Fairmont area

COST: \$15.00

Things to bring: water, appropriate dress for the weather

The Rapture of Raptors - Emeritus Professor David Bird & Cam Gillies

Join Dr. David Bird and local birder, Cam Gillies on a birding trip aimed at finding the various kinds of birds of prey in the Columbia River Valley. Dr. Bird has studied raptors, including falcons, hawks, eagles, ospreys and owls, in both the field and laboratory for over forty years. Between sightings, these two birding experts will regale participants with interesting facts and anecdotes about these awesome creatures. **Level: moderate, aimed at adults**

Fri May 13th from 3:00 pm to 5:30 pm

MAX # 15

LOCATION: Fairmont Hot Springs

COST: \$25.00

Things to bring: Camera, water & dress for the weather

Creatures of the Stream Bottom (A day at Mussel Beach?) – Rick Nordin

This field demonstration is an introduction to some of the organisms that live in and on the mud at the outlet of Lake Windermere. This will be a streamside exploration and discussion focusing on the topic of freshwater mussels, as well as other biota that live in that soft, rich, black muck at the bottom of lakes and streams. Freshwater mussels are not well known or often seen. **Level: easy**

Fri May 13th from 3:00 pm to 5:00 pm

MAX # 15

LOCATION: Invermere

COST: \$15.00

Double-Event Evening Presentation A Travel Writer With a Birding Habit – Carol Patterson

Join travel writer Carol Patterson as you see Antarctica, Peru, Nebraska, and Alberta through a writer's eyes. She will talk about the birds that inspired stories such as the first mountain bluebird to wear a geo-locator and explain how writing about bird poop garnered the Travel Media Association of Canada's 2014 award for Best Environmental/Responsible Tourism Feature.

Wild Moments with Jim Lawrence from Kootenay Reflections Photography

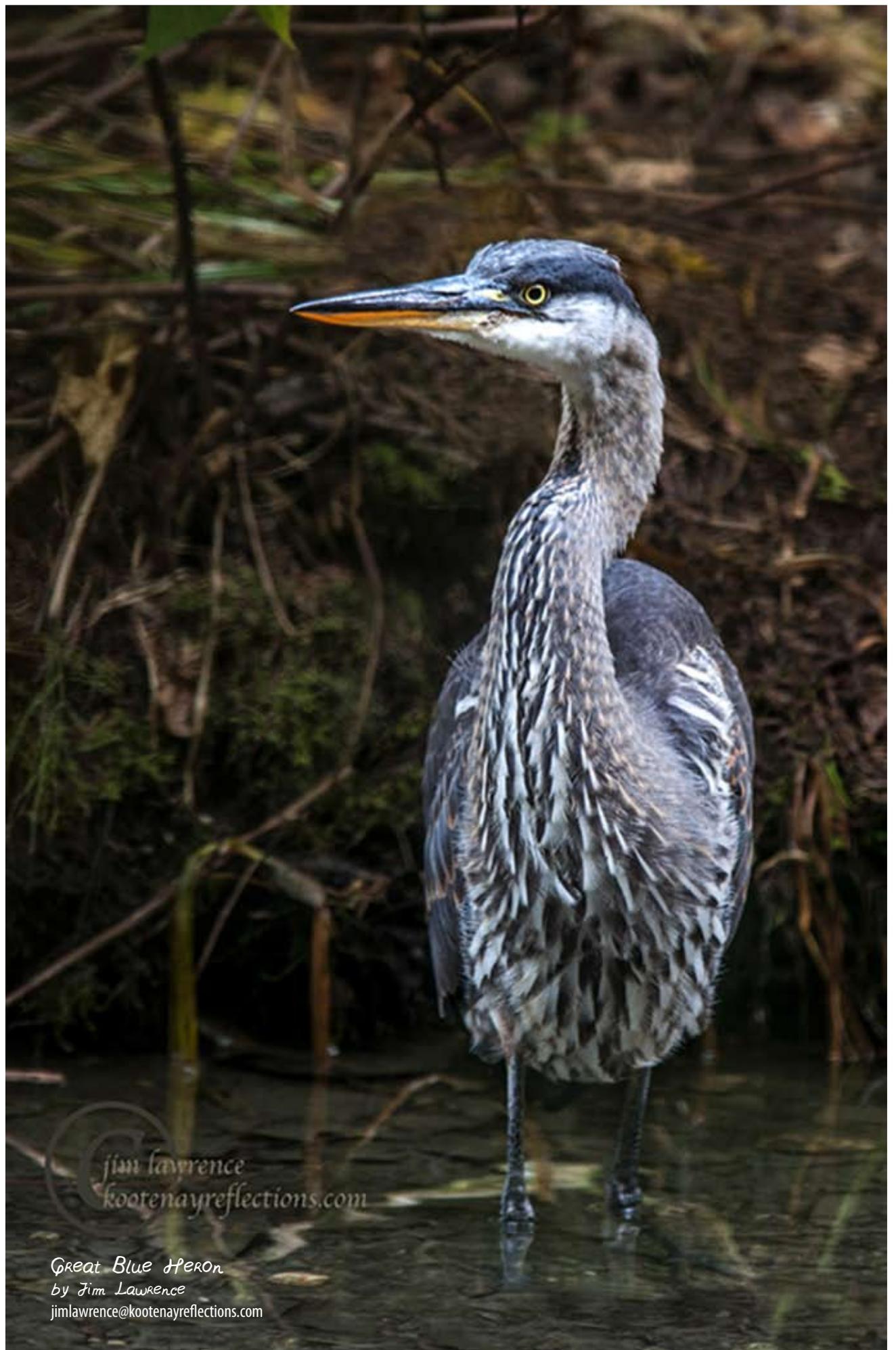
Wild Moments is a 16-minute celebration of our wildlife, a fast moving collection of video clips, depicting unusual encounters with all things wild, big and small. Jim hopes Wild Moments will embellish your appreciation, leave you smiling and caring for our fragile environment.

Fri May 13th from 7:00 pm to 9:15 pm

MAX # 100

LOCATION: Pynelogs Cultural Centre

COST: \$20.00



*Great Blue Heron
by Jim Lawrence
jimlawrence@kootenayreflections.com*



2015 Wings Week Events • Presentations & Field Trips

SATURDAY MAY 14th

Dippers & Ducks – Randy Hopkins

Take a drive up the road to Panorama and help search for the fascinating and elusive diving birds that inhabit this rollicking mountain creek. Bring lots of patience and your best eyesight to spot the Harlequin Ducks and American Dippers who make their home in this amazing watery environment.

Level: easy

Sat May 14th from 8:00 am to 11:30 am

MAX # 15

LOCATION: Panorama area

COST: \$15.00

Things to bring: Camera, water & dress for the weather

Kootenay Park Car Birding - Brian Wesley

In Kootenay Park, there are several pull out areas along highway 93 offering some different locales and bird types. All stops except for one have established parking lots. At most locations a short walk is required. **Level: easy**

Sat May 14th from 8:00 am to noon

MAX # 16

LOCATION: Kootenay National Park

COST: \$20.00

Things to bring: water, snack, dress for the weather, bug spray, walking shoes/boots, binoculars

Early Reflections with Bob Walker

This illustrated walk focuses mainly on the early human history and exploration of the Columbia Valley and surrounding Rocky Mountains. We'll enjoy wonderful views of Columbia Lake while reflecting how the 'Mystery of Migration' became the 'History of Migration' in the area. We'll finish with some reference to the recent human footprint in the area. The venue is on a narrow, easy to moderate nature trail and can be enjoyed by people with a wide range of walking ability. **Level: Easy.**

Sat May 14th from 9:30 am to 12:00 pm

MAX # 12

LOCATION: South of Fairmont Hot Springs

COST: \$15.00

Things to bring: good walking shoes, water, bug spray and dress for the weather

Can Drones Help Our Bird Populations? with Emeritus Professor David Bird (mid-morning snack event)

Join Dr. David Bird as he explores various applications of unmanned vehicle systems (AKA "drones") for bird research, such as conducting population surveys, tracking radio-tagged birds, observing birds in inaccessible or dangerous places, mapping and monitoring bird habitats, and deterring nuisance bird species. Coffee/tea and mid-morning treats!

For all ages.

Sat May 14th from 10:00 am to noon

MAX # 30

LOCATION: Fairmont Hot Springs Resort

COST: \$21.00 (includes coffee/tea and mid-morning treats)

Water Monsters & Dinosaurs: A Family Wetland Exploration – Duncan Whittick & Karen Reid - Family Event (ages 5 – 12)

Join us for a Junior Naturalist exploration! Kids ages 5-12 will be able to discover water monsters and dinosaur descendants. Make sure to bring your rubber boots, a snack and your sense of adventure.

Sat May 14th from 10:00 am to 11:30 am

MAX # 14

LOCATION: Invermere

COST: \$10.00 - under 5 Free

In Search of Moraine with Ron Grams (Geologist)

The glacial history of North America provides practical insights into the significance of today's interglacial, "global warming" concerns. We will start our day at the historic Galena Church and discuss the valley's pioneering history. Then we'll hike to the top of the Selkirk moraine where we'll discuss North America's glacial history, depositional processes associated with glaciers and the sedimentology of moraines. We'll ponder the probability and timing of a next glacial, "global cooling" cycle. The hike will involve an elevation gain of 500-700 feet and moderate steepness in places. **Level: Challenging**

Sat May 14th from 10:00 am to 2:00 pm

MAX # 10

LOCATION: Brisco area

COST: \$20.00

Things to bring: Camera, water & dress for the weather

Lake Enid Family Walk with Kim Urbaniak (Hosted by Wildsight Invermere)

Connect with Nature and your kids and at the same time! Join Wildsight Invermere's Kim Urbaniak at Lake Enid on a playful guided walk geared for young families. We will explore our surroundings, play some games, and make a craft to take home. Children must be accompanied by an adult.

Level: easy

Sat May 14th from 10:00 am to noon

MAX # 16

LOCATION: Lake Enid area

COST: \$10.00 - under 5 Free

What to Bring: Good walking shoes, rain gear, snack

Lake Windermere Pontoon Boat Tour with Pete & The Lake Windermere Ambassadors

Interested in the health of the Upper Columbia River and its picturesque lakes? Join Megan Peloso and our captain Pete for a unique on-water tour of Lake Windermere by pontoon boat and experience first-hand our acclaimed community-based water quality monitoring program. **Level: moderate**

Sat May 14th from 10:30 am to 12:30 pm

MAX # 10

LOCATION: Lake Windermere

COST: \$20.00 (includes pfd)

Things to bring: Snack and water to drink. Also bring a wind-proof jacket, warm clothes and sunscreen/sunhat.

Stand Up Paddle (SUP) Tour of the Columbia Wetlands

From your SUP board, take in the vistas across Lake Windermere to the Fairmont Range. SUP or Stand Up Paddle Boarding is globally the fastest growing watersport and it's not difficult to see why. Easy to learn, very accessible and amazing fun...with just a little training you will be up and paddling and enjoying this amazing sport. Starting at Kinsman beach with easy access from the sandy beach and shallow waters will make it easy and fun for any skill level.

Level: easy to advanced

Sat May 14th from 11:00 am to 1:00 pm

MAX # 20

LOCATION: Invermere Area

COST: \$30.00 (Includes PDF, SUP Board, paddle & guide)

Things to bring: water

The Spirit Trail Story - Peter Bartman

The first white man to use the Spirit Trail was explorer David Thompson. In the spring of 1808 he traveled south from Kootanae House along the East side of Columbia Lake and crossed the Kootenay River near Canal Flats. After exploring into Montana and Idaho he returned to Kootanae House via the same route. Join long-time Fairmont local, Peter Bartman on a walk along the Spirit Trail to hear great old stories that made the east side of Columbia Lake so intriguing and fascinating. **Level: intermediate**

Sat May 14th from 11:00 am to 1:30 pm

MAX # 15

LOCATION: Fairmont Hot Springs area

COST: \$15.00

Things to bring: Lunch for a picnic, water, sunscreen

The Land of the Smoking Waters – Patrick Tolchard

Join Patrick from the Fairmont Hot Springs BC Rockies Adventure Guides on an epic afternoon of hiking through trails of fir and pine forests on the way to one of Fairmont's most breath-taking views, Geary Look Out, located on the edge of the Columbia Valley Wetlands. From this vista you'll witness the world's largest continuous stretch of wetlands from its headwaters at Columbia Lake.

All ages. Level: intermediate

Sat May 14th from 1:00 pm to 4:00 pm

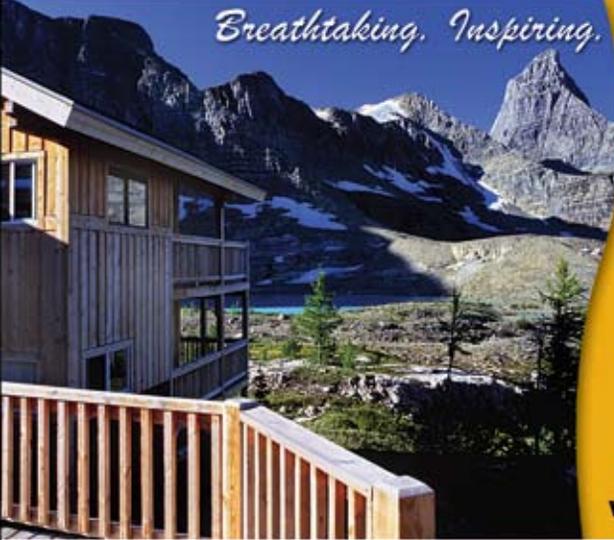
MAX # 15

LOCATION: Fairmont Hot Springs

COST: \$16.50 – under 3 free (includes pass to Hot Springs)

Things to bring: water, dress weather appropriate, hiking boots or sturdy footwear, binoculars

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SATURDAY MAY 14th

Paper Mache Birds Workshop at Black Star Studios

Get creative, get inspired, get messy, get in here! We will make a bird out of newspaper, wire, tape, and cardboard then with colourful paper we will paper mache it and the finished piece will be a Beautiful Bird Sculpture. Make an owl, make a sandpiper, make your favorite bird! Let your creativity soar!

Ages 5 to 99!

Sat May 14th from 1:00 pm to 2:30 pm

MAX # 10

LOCATION: Invermere

COST: \$35.00

Things to bring: creativity

Lake Windermere Pontoon Boat Tour with Pete & The Lake Windermere Ambassadors

Interested in the health of the Upper Columbia River and its picturesque lakes? Join Megan Peloso and our captain Pete for a unique on-water tour of Lake Windermere by pontoon boat and experience first-hand our acclaimed community-based water quality monitoring program. **Level: moderate**

Sat May 14th from 1:00 pm to 3:00 pm

MAX # 10

LOCATION: Lake Windermere

COST: \$20.00 (includes PDF)

Things to bring: Snack and water to drink. Also bring a wind-proof jacket, warm clothes and sunscreen/sunhat.

Water Wonders with Wildsight's Education Team

It lives in lakes, rivers and seas, when it's cold, it floats, when it's hot it's free! What is it? Water! Join Wildsight's Education Team to learn about the wonders of water. Try experiments, play games, and solve mysteries to discover this most precious and magical of substances! Ages 8 and up (younger kids bring a parent). **Level: easy**

Sat May 14th from 1:00 pm to 2:30 pm

MAX # 40

LOCATION: Invermere

COST: \$10.00 - under 5 Free

Things to bring: water, snack, dress for the weather, sense of curiosity and adventure

A Child's View of the Birds (Family Event)

– Emeritus Professor David Bird

Join Dr. David Bird on a relaxed bird-watching trip aimed at helping children learn to identify the various kinds of birds that inhabit the Columbia River Valley. With his vast knowledge about birds and his great sense of humour, Dr. Bird will answer interesting questions like why turkey vultures barf and poop down their legs and how birds put spit to good use. Kids should be able to hike approximately one kilometre, and please bring your parents along!

Sat May 14th from 2:00 to 4:00 pm

MAX #15

LOCATION: Invermere area

COST: \$ 15.00 - under 5 Free

20th Annual Gala Event & Keynote

A Gala Banquet with Keynote

Speaker Dr. David Schindler

Protecting Canada's Freshwaters in the 21st Century

David Schindler is an internationally celebrated scientist who has led efforts to protect fresh water resources in Canada and around the world. He will examine the major factors threatening Canada's freshwater lakes, rivers and wetlands and envision the inevitable tradeoffs between conservation and economics.

Sat May 14th at Copper Point Resort

5:00 Refreshments

6:30 Dinner

8:00 Live Auction & finale of the Silent Auction

8:30 Keynote Event

MAX # 180

Cost \$75 (partial tax receipt provided)



Rufous Hummingbird in Green
by Jim Lawrence
jimlawrence@kootenayreflections.com



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2015 Wings Week Events • Presentations & Field Trips

SUNDAY MAY 15th

The Bird & the Birder Wetlands Paddle with David Bird & Randy Hopkins

Join Dr. David Bird & Randy Hopkins on a fun-filled paddle through the wetlands to identify the various kinds of water birds and to discuss how they have adapted to living there. During his forty years, Dr. Bird taught about birds, led numerous birding trips, given hundreds of talks on birds to all ages, and written countless articles about them. Randy Hopkins, our local birder and man of many talents will share his knowledge on the Columbia Wetlands and the birds that inhabit them. It is Ornithology 101 while sitting in a canoe! Basic paddling experience necessary. **Level: Moderate**
Sun May 15th from 8:30 to 10:30 am
MAX # 20
LOCATION: Invermere
COST: \$30.00 (includes PFD & boat)

Wonders of Windermere with Cam Gillies & Michael den Otter

A family friendly outing to do some fun birding in Windermere. We'll walk to the lake and look for eagles, osprey, chickadees and more. Recommended for kids (6+) and parents. **Level: easy**
Sun May 15th from 9:00 am to 11:00 am
MAX # 20
LOCATION: Windermere area
COST: \$5.00 per person
Things to bring: water and dress for the weather

Ecological Tour on the Zehnder Ranch – John & David Zehnder

Join us for a walk through the hay fields looking for Long Billed Curlews and other birds, followed by a herding demonstration with John and his Border Collies. Then we will take a walk along Bunyan Lake looking for Painted Turtles, wetland birds, and watch for Mountain Goats along Mount Taynton. The tour will finish with John and David talking about two conservation projects, which are helping to protect both wetlands and Mountain Goat habitat on the Ranch. **Level: Intermediate**
Sun May 15th from 9:00 am to noon
MAX # 18
LOCATION: Invermere
COST: \$20.00 - under 5 Free

Water Monsters & Dinosaurs: A Family Wetland Exploration – Duncan Whittick & Karen Reid - Family Event (ages 5 – 12)

Join us for a Junior Naturalist exploration! Kids ages 5-12 will be able to discover water monsters and dinosaur descendants. Make sure to bring your rubber boots, a snack and your sense of adventure.
Sun May 15th from 10:00 am to 11:30 am
MAX # 14
LOCATION: Invermere
COST: \$10.00 - under 5 Free

Wings, Rockies and Wine & Cheese with Ron Grams (Geologist – 'Spill Billy')

What better way to experience the "Reflections in the Water" than to observe them while paddling along a peaceful reach of the Columbia River. This will be a 3-4 hour trip (chauffeured canoe with optional intro to kayaking), which will include a stop on the Galena Creek delta where folks can relax or take a short hike after/before enjoying a wine and cheese lunch. Perfect for the inexperienced paddlers interested in an introduction to the Columbia wetlands. Rain checks? ... Definitely! Any food allergies? **Level: Easy (should be comfortable around water)**
Sun May 15th from 10:30 am to 2:30 pm
MAX # 2
LOCATION: Brisco
COST: \$200.00 for two (includes boat, life jackets, guide,

lunch and shuttle back to vehicle)

Things to bring: Sunscreen, hat, shorts, river footwear suitable for walking (old runners, etc), layers, wind pants & wind breaker

How Birds Do It! with Emeritus Professor David Bird (Lunch Presentation)

Join Dr. David M. Bird for a "bird's eye-view" of the seemingly indecent world of avian reproduction involving the Mile-High Club, incest, homosexuality, transvestitism, sex changes, divorce, and infidelity. It simply puts television soap operas to shame! Not meant for children under 13. Event includes lunch.
Sun May 15th from noon to 2:00 pm
MAX # 200
LOCATION: Fairmont Hot Springs Resort
COST: \$30.00 (includes lunch & presentation)

The 'Bear Smart Community' Project with Andrea Smillie, WildSafeBC & Conservation Officer Service

Learn about Invermere's "Bear Smart Community" project during a presentation from WildSafeBC: our interactions with bears in Invermere, where their travel corridors are located, and what is now being done to prevent conflict. You'll also get a safety lesson and learn how to use bear spray (inert spray provided). **Level: easy**
Sun May 15th from 12:30 pm to 2:30 pm
MAX # 15
LOCATION: Invermere
COST: \$15.00
Things to bring: Notebook, raincoat (if weather isn't great)

The Land of the Smoking Waters – Patrick Tolchard

Join Patrick from the Fairmont Hot Spring's BC Rockies Adventure Guides on an epic afternoon of hiking through trails of fir and pine forests on the way to one of Fairmont's most breath-taking views, Geary Look Out, located on the edge of the Columbia Valley Wetlands. From this vista you'll witness the world's largest continuous stretch of wetlands from its headwaters at Columbia Lake.
All ages. Level: intermediate
Sun May 15th from 1:00 pm to 4:00 pm
MAX # 15
LOCATION: Fairmont Hot Springs
COST: \$16.50 – under 3 free (includes pass to Hot Springs)
Things to bring: water, dress weather appropriate, hiking boots or sturdy footwear, binoculars

Source to Sea: Stories & Films of the Columbia River with the Columbia Basin Transboundary Youth Network

Celebrate the source of the Columbia River and enjoy extraordinary stories, music, films and art shared by First Nations and settlers of this region. Join in symbolically connecting from 'source to sea' as the headwaters audience is linked online with a sister event happening simultaneously at the mouth of the river in Astoria, Oregon. The Canal Flats event will offer both a headwaters walk and storytelling and films in a local venue. **Level: easy**
Sun May 15th from 1:00 pm to 3:30 pm
MAX # 40
LOCATION: Canal Flats
COST: \$10.00

Project Take Flight Raptor Rehabilitation Flight Cage Open House with Mark Zehnder & Judy Burns

The purpose of this large cage is to get raptors, that have been treated for injuries, back into flying shape prior to release. It was built in 2011-2012 with generously donated construction expertise, funds, and some materials.

Usually, the cage is not open to the public to minimize stress on the birds, therefore, this is an opportunity to see the facility, hear a short presentation and ask questions. There will not be birds in the cage during the open house. Donations of dead rodents, game, fish or dollars gratefully accepted!

Level: easy
Sun May 15th from 2:00 pm to 4:00 pm
MAX # 50
LOCATION: Invermere Area
COST: \$10.00 - under 5 Free



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Photo: Chris Freeborn

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This catered excursion will see guests ride three chairlifts in order to access the summit. Once at the resort's upper regions, guests will be chaperoned to select vantage points with spectacular vistas of fall colours. After rambles on the ridge, guests will then descend to the resort for drinks and entertainment.

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Tickets for this event must be purchased in advance. For more information and to purchase tickets, please visit PanoramaResort.com or call 250.342.6941.

ADULTS: \$99 / CHILDREN: (6-12) \$79; (5 & under) FREE

*Note: This event is best suited for those in reasonable physical condition and equipped with suitable outdoor apparel.


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