



THE CONFLUENCE

Newsletter of the Washington—British Columbia Chapter of the American Fisheries Society

Winter 2016/2017

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The Washington-British Columbia Chapter of the AFS 2017 Annual General Meeting is just around the corner! The meeting will be held in Spokane, Washington, on April 10-13.



Special hotel room rates (\$99/night) have been secured at the Hotel RL by Red Lion in Spokane, WA. Located on the banks of the Spokane River, Hotel RL is your key to downtown Spokane. The guest rooms and suites lie steps away from Riverfront Park and local attractions like the Spokane Convention Center and some of the city's best restaurants and cafes. They have all the features you need, like complimentary Wi-Fi and craft amenities. Curiosity is the only compass you will need.

Grab a cup of free coffee from Victrola Coffee Roasters, located onsite at Hotel RL, for some of the city's best artisanal coffee, and enjoy it alongside local artists at The Living Stage. A hub for community engagement and entertainment, The Living Stage hosts local artists, musicians, speakers and more. When you're ready to see more of Spokane, take advantage of the hotel's onsite bike rental and explore the city at your own pace.

There will be awards for Best Student Talk and Poster! Apply to be an exhibitor at the Tradeshow or become a Sponsor and get a free registration!

Included with the meeting are Socials, a Poster Session, Trade Show, and a "Spawning Run."



AGM Quick Tip

For the latest AGM info: <http://agm.wabc-afs.org/>
Hotel RL info: <https://www.redlion.com/park-spokane>



**WA-BC Chapter
President**

**WA-BC Chapter
Executive Committee**

President

Alix Blake

President Elect

Tamara Knudson

Vice President

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Mark LaRiviere

Treasurer

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Brittany Jenewein

Student Representative

Orlay Johnson

AFS-UW President

Amaryllis Adey

AFS-BC President

Sam Wilson

AFS-EWU President

Bryan Witte

President's Report

I hope everyone had a safe fun holiday season! Now that the holidays are past us, we are plowing forward planning the 2017 meeting and improving the Chapter! I encourage all Chapter members to become involved at a higher level, and that doesn't mean you have to be a Chapter officer. Several committee chairs currently sit vacant and volunteers will NEVER be turned away! :)

We currently have several committees including: Annual General Meeting Program, Nominations, Archive, Membership, Resolutions, Awards, Scholarships and Rules and Procedure. In the past other committees have formed, such as Marine Fisheries, Genetics, and Media. If you are interested in one of the listed committees or find the need for a new committee, contact the Chapter. Several dormant committees will be removed if no one decides to participate in the committee. The committees on the chopping block are: Development, Outreach, Student Coordination, Marine Fisheries, and Genetics. A list of all the committees and descriptions are available on the [chapter website](#).

I hope everyone is currently making their travel arrangements for the 2017 annual meeting in Spokane, WA, April 10 - 13, 2017! A block of rooms is available at

the [Red Lion Hotel at the Park](#) located at 303 W. North River Drive Spokane, WA, 99201. Visit <http://agm.wabc-afs.org/> regularly, as information is updated and provided frequently. Please register and submit an abstract by March 15, 2017! We are also looking for people interested in organizing a continuing education course. Lastly, we are seeking contributions to our silent auction. Items such as t-shirts, books, fieldwork supplies, art, and jewelry will be on display during the meeting. All of the proceeds of the silent auction go directly to assist student travel to the conference. If you are interested in helping organize the meeting, contact Tamara Knudson or myself at tamarak@spokanetribe.com or alix.blake@spokanetribe.com.

If you cannot attend our 2017 Spokane meeting, here are a couple of other meetings to check out:

The 2017 Western Division annual meeting will be held in Missoula, Montana, May 21 - 26, 2017. The theme is Change and Continuity: Celebrating 50 Years of Fisheries in the West. I encourage everyone to participate in the meeting! <http://wdmtg.fisheries.org/>

The 2017 AFS meeting will be in Tampa, Florida, August 20 - 24, 2017. The theme is Fisheries Ecosystems: Uplands

to Oceans. I encourage our Chapter members to participate in the national meetings and hopefully do some ocean fishing in Tampa too! <http://afsannualmeeting.fisheries.org/>

Lastly, our chapter will be hosting the 2020 Western Division meeting! We are looking for individuals interested in helping to set up the meeting! It will be a great meeting and we will keep the members in loop as the meeting is developing! Contact past-President Mark LaRiviere (mglariviere@aol.com) if you are interested in helping out.

We are always looking for articles and submissions for our newsletter. We want to know what interesting research you are conducting or fun fish-related stories. Please submit your work to our Communications Director Brittany Jenewein (btjenewein@gmail.com or afs.wabc@gmail.com).

Best wishes and have fun this spring in the field. I know 2017 is going to be an amazing year! I will see all of you in Spokane this April!

Alix Blake, President

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Student Subunits: Reports and Activities



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Bryan Witte
EWU Student Subunit President
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We have had a few events for people in the subunit and at UW to get to know who we are and what we do. These have mainly been coffee events and table for student clubs and activity boards. We are finally getting underway with our bigger events this quarter and in spring quarter.

We recently had our first fundraising event. Julian Olden, our faculty adviser, helped us arrange a prerelease screening of a documentary about the Willamette River in Oregon. Turn out and attendance was decent, with a large portion of people coming from consulting companies around Seattle.

We are now in the process of planning our Trivia Night, which takes place toward the end of February, and our career development seminars for this quarter and spring quarter. We have one set up for March and are working on figuring out additional speakers for the spring.



Our subunit held a fish trivia night on November 30th. It was our largest fish trivia yet with ~35 attendees excluding our ExCom. We've got lots of great feedback from this event and are hoping to host another soon!

We are also helping to organize the Silent Auction for the 2017 WA-BC Chapter AGM. If you have any items you would like to donate, please let us know!



The EWU Student Subunit is helping to plan the Student/Mentor mixer at the 2017 WA-BC Chapter AGM. If you are interested in being a mentor at this event, please contact Shawna Warehime at sbwarehime@eagles.ewu.edu. (And see more details on page 12)

Why should I attend my Chapter's Annual General Meeting?

written by Brittany Jenewein with input from the Executive Committee of WA-BC Chapter

The next Annual General Meeting (AGM) of the Washington-British Columbia Chapter of the American Fisheries Society is coming up soon. Many of you may be wondering why you should attend your Chapter's AGM, particularly when considering the tight budget and travel restrictions that are all too common these days. We would never discourage attending larger meetings, but many are unaware of the benefits of smaller, local meetings. Below is just a small sampling of these benefits:

Affordability: Registration fees are about **half the cost** of those of a large national meeting. Due to the smaller size of these meetings, there are typically more cost-effective options for venues available, which lowers attendees' fees. Better hotel rates are also often secured at the same time.

Location: Chapter meetings are not far from home, and because of the smaller size the event can often be held in lesser-known but intriguing cities and resorts. What better way to explore more of your region than with your peers who are just as excited as you to check out the local hatchery operations?



Ease of travel: Chapter meetings are always held in the Chapter State/Province, meaning you don't have to spend as much time and money on getting to the meeting as you would for a larger conference.

***Note:** *We recognize that some of our members have difficulty attending meetings out-of-country; The Executive Committee feels strongly that as a trans-boundary Chapter, it is vital to do our best to alternate meetings between Canada and the U.S.A. We hope this will not discourage those members from attending future meetings that may be more accessible to you.*



Connect with your peers: Chapter meetings are more intimate than most society meetings. You won't get lost in a sea of people, and it's easy to connect and re-connect with new and old friends alike. You're more likely to find someone who has worked with your boss/supervisor or

in your program/agency and you can take some time to bond over your mutual likes and dislikes. As you attend more of these meetings, you will start to recognize faces and keep up-to-date with colleagues you don't get to see frequently.

Student awards: With a smaller meeting, fewer students are in attendance overall, which increases the odds of earning that coveted "Best Student Paper" award and a cash prize! The Chapter also provides travel awards to many students each year to help them get to the Chapter meeting.

Priority access to new research: A Chapter meeting is one of the earliest opportunities most researchers have to spread the word about the important work they are doing and to get feedback from peers who are more familiar with the topic/geography/issues than most who might attend at a larger meeting. It's also an opportunity to learn what others in your region are learning and developing, which could be important for future work. Wouldn't you love to finally put a face to the name you keep citing in your papers?



*2016 AGM Best Student Paper Winner
Brooke Bannerman*

Career development: There is so much to learn at a Chapter meeting, it's almost overwhelming! Aside from learning about all the amazing research being conducted in your local area, attendees also have the opportunity to develop their skills in Continuing Education workshops, learn from the best about how to progress in your career at the Student/Mentor session, and earn volunteer hours to add to your resumé. Chapter meetings are also a great place for job seekers to find *local* jobs and for employers to meet potential candidates to fill an upcoming job opening. Make sure to visit the job board at the Registration Desk!



Get inspired! This is one of the best places to learn about innovative approaches to challenges in your region and discuss with colleagues to develop creative solutions to your own issues. The plenary sessions often inspire by revisiting the challenges and successes of a lifetime of work and encouraging the next generation not to just "keep swimming" but to forge ahead strong in the face of the many challenges encountered along the way.

Have some fun! It's not all work and no play! The Executive Committee makes sure you're taken care of by organizing fun events like the 5K "Spawning Run", a banquet that includes an exquisite dinner buffet and dancing, and field trips to local attractions like wineries and fish hatcheries, and guided hikes. The first round is on us!

Are you excited yet? This list gives you just a taste of everything we have in store for you at the 2017 AGM in Spokane, WA. Abstract submission is now open until March 15, 2017. Check out <http://agm.wabc-afs.org/> for the latest meeting updates.

2017 AGM Plenary Speakers



Dr. Allan T. Scholz
Retired Biologist

We are pleased to announce two of three plenary speakers for the 2017 AGM. Dr. Allan T. Scholz has received numerous awards throughout his career, including over 150 research grants, contracts, and donations of equipment. He retired in 2015 but still has an active research program. He is the author of 7 books, and over 150 publications and technical reports, most of them about fishes in eastern Washington. Perhaps his most significant accomplishment has been in training fisheries scientists, at least 125 of which have been employed by federal state, and tribal fisheries management agencies, public utility districts, or private consulting firms. Dr. Scholz is best known for his work on olfactory imprinting and homing in salmon. He was Arthur D. Hasler's last graduate student and coauthored with him what is now considered a classic work on **Olfactory Imprinting and Homing in Salmon**. His other books include: **Field Guide to the Fishes of Eastern Washington**, **Fishes of the Columbia and Snake River Basins in Eastern Washington** and a four volume set entitled **The Fishes of Eastern Washington: A Natural History**. All of these books are available on the EWU John F. Kennedy Library Digital Commons website for free viewing and downloading. Contact Dr. Scholz for assistance downloading the books.

He has been studying fishes for over 50 years. His work investigating the migratory behavior of white bass (*Morone chrysops*) in Lake Mendota eventually led him to studying the migratory behavior of salmonid fishes. He has studied the migration of various species of salmonid fishes in the Great Lakes, San Juan Islands, Puget Sound and Columbia River, Washington, Alaska, British Columbia and Japan. Dr. Scholz also helped to establish fish and wildlife programs on the Coeur d'Alene, Kalispel, Kootenai and Spokane Indian reservations. He is currently working on a new book tentatively titled **Indians of the Upper Columbia River Basin and Their Salmon Fisheries: Being a treatise on historical distribution of, and aboriginal people's utilization of, anadromous fishes in the upper Columbia River Basin above Chief Joseph/Grand Coulee dams and factors contributing to their demise; together with notes on their resident fisheries**, to be published in 2017. His plenary address is drawn from this work.

Our second plenary speaker, Dr. Eric Knudsen, earned his Ph.D. in Wildlife and Fisheries Science from Louisiana State University. He has 43 years' experience in fisheries and wildlife science and management. He retired from a career with LSU, the USFWS, and USGS in 2003 and then engaged in independent fisheries consulting until just recently. Much of his career has been focused on Pacific salmonids in Alaska and the Pacific Northwest. Dr. Knudsen is a Past President of the Washington-British Columbia Chapter and the Western Division, American Fisheries Society. He is a Co-Founder and Past President of Ecologists Without Borders. He also currently manages the Hatchery-Wild Interactions Study part time under contract to the Prince William Sound Science Center in Cordova, Alaska.



Dr. Eric Knudsen
Retired Biologist

More Plenary Speaker info to come! Be sure to watch our Chapter and AGM websites for the latest information: [WABC Chapter Website](#) | [AGM Website](#)

2017 AGM Symposia

We have several exciting symposia topics for the upcoming AGM that cover a broad range of topics all relating to our overall theme:

"Fisheries Collaborations: Tipping the Scales Toward Success"

Advancements in environmental DNA

Chair: Scott Blankenship, Cramer Fish Sciences

Advancements in fisheries technology

Chairs: Gabriel Brooks and Gordon Axel, NOAA Fisheries

Knowledge Mobilization: More than just bridging the gap between knowledge producers and users

Chair: Brittany Jenewein, Pacific Salmon Commission & American Institute of Fishery Research Biologists (BC District)

Depressed fish stocks: Collaborative recovery

Chair: Judy Neibauer, US Fish & Wildlife Service

Studies of Aquatic Habitats

Chair: TBD

Anadromous Fish Passage and Reintroduction into the Upper Columbia

Chair: Laura Robinson, Northwest Power and Conservation Council

Magnitudes and mechanisms of salmon and steelhead straying: Implications for management targets of hatchery straying

Chair: Todd N. Pearsons, Grant County Public Utility District

Transboundary Collaborations

Chair: Erin Rechisky, Kintama Research Ltd.

See the [AGM website](#) for descriptions of each symposium.

AGM Quick Tip

Be sure to take a break from the conference to enjoy the beautiful views! What better way to explore Spokane than by signing up for the Spawning Run? **Join us April 11 @ 11am**



WRFC8

JULY 16 - 20 2017 Victoria, Canada

The World Recreational Fishing Conference unites the global recreational fishing community and provides an essential forum to discuss current research.

Held every three years, this is the only international conference focused solely on recreational fisheries – an event you don't want to miss!

Your ticket includes access to all presentations, breakout sessions, networking events, coffee breaks, lunches, banquet & reception.

FEES

Early Bird - \$375 CAD – \$425 CAD after April 16, 2017 – Students - \$275 CAD

To register, reserve accommodation, or submit an abstract, visit wrfc8.com



For updates,
like and follow
[@WRFC8](https://twitter.com/wrfc8)

Awards

It must be award season! There are lots of scholarships and travel awards up for grabs right now. Don't let these pass you by!

See <http://wabc-afs.org/about-us/awards/> for details of the 3 WA-BC Chapter Awards below.

WA-BC Chapter Awards

The Washington – British Columbia Chapter of AFS is seeking nominations for the 2017 awards. Award recipients will be honored at the 2017 Annual General Meeting of the chapter to be held in Spokane, Washington, from April 10 – 13, 2017. Nominations require a candidate's name, contact information, some biographical information and their connection to the WA-BC chapter including service to AFS. Submit your nomination(s) to Past-President Mark LaRiviere at mglariviere@aol.com, or to any member of the Chapter Executive Committee ExCom by March 1, 2017.

C. Jeff Cederholm Scholarship Endowment Fund

Jeff Cederholm dedicated his career to conservation of salmon and aquatic species and their habitats. Jeff passed away in 2006 leaving a legacy of education, pioneering contributions to scientific literature and periodicals and instilling of passion for wild salmon conservation in many people for decades. After a successful American Fisheries Society Meeting hosted by the WA-BC Chapter in Seattle 2011, the Chapter resolved in 2013 to apply raised funds and subsequent contributions to the endowment to create a permanent source of financial support for educational expenses. The Scholarship is administered by the WA-BC Chapter Endowment Committee.

WA-BC Chapter Student Travel Awards

The ExCom is now accepting applications for student travel awards, to be used to assist students in attending the upcoming chapter AGM in Spokane, WA. Applications are due **February 15, 2017**. Please see full details in the application package.

WDAFS Scholarships

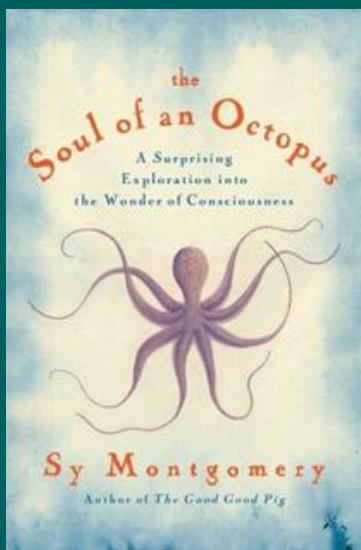
The Western Division of the American Fisheries Society deadline for the 2017 graduate-level student scholarship applications is April 1, 2017. This scholarship program provides up to \$5,000 annually in scholarships to master's or doctoral students in the general area of fisheries science; awards will be presented to one to three individual students. Applications for the Western Division scholarship program will automatically be considered for the Sustainable Fisheries Foundation scholarship program (\$600) as well. See <http://wdafs.org/students/scholarship-travel-award-information/> for full details.

WDAFS Travel Awards

The Western Division of the American Fisheries Society is pleased to offer funding in the form of travel grants for the annual meeting in Missoula, Montana to be held May 22-25, 2017. These travel grants are for Students, Young Professionals (graduated in past 5 years), Professionals, and International attendees. Grants will be awarded at the discretion of the WDAFS Executive Committee and may or may not cover the amount requested. Maximum amount per awarded grant will be \$500(US) (minimum \$250(US)). See <http://wdmtg.fisheries.org/travel-lodging/travel-grants/> for full details.



Orlay Johnson
Reviewer



The Soul of an Octopus



Sy Montgomery,
Author

Image from <http://www.matthewlomanno.com>

The Book Nook

Falling in Love with an Alien Octopus

Review by Orlay Johnson: "The Soul of an Octopus: A Surprising Exploration into the Wonder of Consciousness"

Author Sy Montgomery, Publisher 2015 Simon and Shuster 263p.

This book has been out for a while and is available in hardback, paperback, Kindle, etc. You can get new and used editions many places at very inexpensive prices or for free at your local library – You can read it in a few days and I highly recommend getting a copy.

I enjoyed this book and was surprised to see many negative comments on Amazon and other websites. I realized that many critics had expected either more of an octopus science book or a mystical "deep-sea key to our inner soul" (from one reviewer). Neither expectation will be satisfied - at least not entirely.

As you might expect from the title, it is not a strictly scientific tome. While "Soul" does have plenty of science, it primarily focuses on a series of stories by naturalist Sy Montgomery about her growing awakening to a fascination with octopuses at Boston's New England Aquarium and after learning to SCUBA dive, her experiences with wild octopuses in Polynesia.

Montgomery had won several awards with her two previous books (The "Tarantula Scientist" and "The Man-Eating Tigers of Sundarbans"), but neither delved into the aquatic realm. This was a new world for her, in more ways than one.

The book is a series of stories, beginning with visits by the author to the New England Aquarium, where it is apparent she has little experience or knowledge of octopuses. However, as she describes her developing friendships with Aquarium biologists Bill Murphy, volunteer Wilson Menashi, and others and the octopuses they care for (especially Octavia), we see her love for these animals evolve. She is an excellent observer of nature, and as she wins over the biologists' trust they allow her to observe the Aquarium's octopods, but also touch, feed, and interact with them. These experiences reveal an increasing appreciation of the uniqueness of a species as alien to humans as any extraterrestrial, as well as her expanding knowledge of the science of octopus behavior and intelligence.

In the second half, she takes this fascination for the 8-legged to new levels as she learns to SCUBA dive and travels to exotic locales to observe octopuses in the wild. She also begins to attend scientific meetings such as the Great Pacific Octopus conference at the Seattle Aquarium, where she meets research biologists such as Drs. Jennifer

Mather and the late Roland Anderson (Seattle Aquarium biologist).

All of her stories center various learning experiences with the octos as well as, and equally important, the incredible experiences of people she brings to visit the octopuses and the love for these creatures by the biologists at the various institutions.

The first part of the book describes how a naturalist who is not particularly knowledgeable about octopuses falls in love with them and works closely with staff at the New England Aquarium to learn as much as she can. The second half is more about her learning to dive, and her adventures doing first hand investigations into the life history and behaviors in the wild, while maintaining her connection to staff and her 8-legged friends at the N.E. Aquarium.

That is the book - not science, not religion, but stories that tell us tales of the people who work with octos, who visit octos, and the science that has been learned in recent years about these amazing alien creatures.

And that, I think, is the second point major she makes - Cephalopods are as close to truly intelligent extraterrestrial aliens as anything we have on this earth. That said, octopus evolved over 400 million years ago, long before the first primitive vertebrate appeared on the planet, So if anyone is an alien, it is us.

For the science lovers, I should add the book does present significant new and interesting discoveries about octopuses (such as how studies suggest they can "see" colors through sensory neurons in the arms). While she does not specifically reference research papers for each new discovery (I wish she did), the book does have an extensive reference section and provides researchers' names and institutions, making it easier to find the papers she cites. Also she attended the Seattle Aquarium's "Giant Pacific Octopus Workshops where she talks with Dr. Roland Anderson (who sadly passed away just before the Second Symposium) and discusses the research presented - such as the potential new subspecies of octopus in Prince William Sound. She also discusses many of the papers and fascinating research conducted by Roland on octopuses at the Seattle Aquarium.

One thing I wish the book had more of were more photos of some of the many people (esp. Bill Murphy, Wilson Menashi, and Roland Anderson) who introduced her to octopuses.

The stories of friends who visit the Aquarium or those who she learned to SCUBA dived with and later visited Polynesia with are high points of every chapter: all are interesting and are connected to some new intuition or discovery about octopods. I enjoyed all, but one I enjoyed the most is about a young man, Danny, who has a visit with the octopus Kali on his birthday. Great vignette.

If you want pure science read "Octopus - the Intelligent Invertebrate" by noted researchers Drs. Jennifer A. Mather, Roland C. Anderson, and James B. Wood. However, if you want a short, well written and fascinating story about one woman's awakening to the science and friendship of these amazing creatures - give the book a read.

Got a story or book review to share?

We want to hear from you! Send your newsletter ideas to Communications Director Brittany Jenewein (btjenewein@gmail.com or afs.wabc@gmail.com).

Call for Mentors!

The WA-BC Chapter of AFS is looking for members to join a panel of mentors at the 2017 Chapter AGM. The student/mentor panel and mixer will be held **Tuesday, April 11 from 5-7pm** at the conference venue, Hotel RL. We are seeking mentors from the following career streams:

- Academia
- Non-government organizations
- Government organizations
- Consulting
- Communications

We also ask anyone interested in being a mentor, but not on the panel, to please attend the mixer portion of the evening, which will start around 6pm.

Why be a mentor?

Give Back

Obtain personal satisfaction by making a difference in the career development of the new generation, facilitate your own professional and personal growth by sharing the knowledge you learned through your years of experience, and give back to the industry and the institutions that helped you gain your expertise and reach success. Mentoring is an empowering and rejuvenating experience that impacts both mentors and mentees and largely contributes to their development.

Inspire with your leadership and managements skills

Through your obtained leadership and management skills and using effective communication techniques, you will be inspiring a new generation of leaders who are passionate about their fields of study and who want to make a difference in the world. Those recent grads are budding entrepreneurs who aspire to be highly successful and look for our guidance to achieve success.

Expand your professional network

In addition to sharing your wide network of professional connections in the field of fisheries, this experience allows you to reach out to the talents of the new economies and gain fresh new perspectives. A mentor-mentee relationship offers benefits in addition to acquaintance, networking, and support.

Be the change maker

Be one of the game changers by helping shape the future fisheries landscape and be one of the first insiders involved in impactful adventures and innovative projects that mold the future economy and impact lives and jobs in our communities. Mentors can be the change they want to see in the world through their efforts of instilling seeds of growth in the new generation.

If you are willing to participate in the mentor panel, please RSVP to Shawna Warehime at sbwarehime@eagles.ewu.edu . Please also RSVP if you will attend as a mentor at the mixer!

Thank you for your consideration!

GREETINGS FROM THE CANADIAN AQUATIC RESOURCES SECTION OF THE AMERICAN FISHERIES SOCIETY



Make sure to join CARS when you re-new your AFS membership this year
<http://fisheries.org/membership>



Join CARS at any time if you are an AFS member

Contact CARS at: carsafs@gmail.com for more information, or find us online at cars.fisheries.org.

CARS Highlights

- 1) Created the Legends of Canadian Fisheries Science and Management award in 2014.
- 2) Supports numerous students through the Peter A. Larkin award for excellence in M.Sc. and Ph.D. student research and fisheries leadership, and administers the Clemens-Rigler travel awards to annual CCFR meeting.
- 3) Currently coordinating the writing of a textbook on Canadian fisheries science - watch for it in 2016.
- 4) Advocates for Canadian fisheries professionals through involvement with PAGSE (the partnership group for science and engineering), peer-review publications, and timely letters to environmental approval agencies.
- 5) Links together the four Canadian-focused AFS chapters.

Photo by Emmanuelle Chrétien

Ecofish Research Ltd. Enhances Environmental Service Capabilities with ECODynamic Solutions Inc. Transaction

(Vancouver, BC) -- Ecofish Research Ltd. Recently announced the acquisition of ECODynamic Solutions Inc. (EDS), a leading environmental construction monitoring firm located in Courtenay, B.C.

A recognized expert construction environmental management and monitoring firm, EDS has for the past decade provided efficient and timely service to dozens of clients across the hydro, mining, urban, linear development, and government sectors in western Canada. With a staff of recognized experts in the field of construction monitoring, EDS has an excellent reputation among regulatory agencies and clients, including BC Hydro, Brookfield Renewable, AltaGas and Alterra Power Corp.

Since 2005, Ecofish and EDS have teamed on major development projects, proving value by solving challenging environmental problems in all project phases. By binding the successful association within a single firm, Ecofish will continuously increase service value to a growing client list. With a larger and more diverse team, Ecofish can provide effective, reliable environmental construction monitoring and assessment services across key industries, to private clients, First Nations and regulatory agencies.

"With the addition of a talented team of accomplished professionals, we will bring our clients even better service across all phases of their projects." – Adam Lewis, President, Ecofish Research Ltd.

About Ecofish Research Ltd.:

Ecofish Research Ltd. (www.ecofishresearch.com) began in Vancouver in 2001 to meet the need for reliable, trustworthy, science-based environmental consulting. Ecofish Research offers a broad range of trusted environmental assessment, monitoring, mitigation, offsetting and design services - delivered using a proven, science-based approach for clients in industry, government and First Nations. We now have an international team of over 85 scientists and other professionals with offices in Vancouver, Toronto, Courtenay, Victoria, Squamish, Campbell River, and Terrace, capable of working on projects around the world.

About ECODynamic Solutions Inc.:

ECODynamic Solutions Inc. (ecodynamicsolutions.com) is a B.C. registered, environmental consulting firm specialized in the provision of third party environmental monitoring, construction environmental monitoring, construction environmental management and mitigation planning, environmental auditing, and erosion and sediment control planning.

For further information, contact:

Stephanie Johnson
Marketing and Business Development Coordinator

Ecofish Research Ltd.

Phone: [604.889.5754](tel:604.889.5754)

Email: skjohnson@ecofishresearch.com

Education Corner

CERTIFIED INTERPRETIVE GUIDE COURSE MARCH 26-29, 2017

Check out this popular course being offered this spring at Billy Frank Nisqually National Wildlife Refuge - Certified Interpretive Guide Course offered by the National Association for Interpretation.

A great course for those who want to hone their skills in public presentations at informal venues. See [this link](#) for more information.

ONENOA SCIENCE SEMINAR SERIES

The OneNOAA Science Seminar Series are the most complete and integrated summary of NOAA-wide science and climate seminars. See the full list of FREE online seminars [at this link](#).

COLUMBIA RIVER TREATY UPDATE

The Columbia River Treaty is one of the most influential pieces of diplomacy and policy for the watersheds and ecology of the Columbia Basin. In this webinar, we welcome Kathy Eichenberger to lead us through a review of the Treaty, the preparations for renegotiation, and the current status of the treaty and the timeframe for possible change. Kathy is the Executive Director of the Columbia River Treaty Review Team. Webinar will be held Tuesday, March 7, 1:30 - 2:30 Pacific, 2:30 to 3:30 Mountain. To register for Columbia River Treaty Update, [click here](#).



Washington-British Columbia Chapter of the American Fisheries Society

Chapter Information

Website: <http://wabc-afs.org/>

Facebook: <https://www.facebook.com/wabcafs>

Twitter: <https://twitter.com/wabcafs>

Want to join AFS and the WA-BC Chapter? <http://membership.fisheries.org/>

Questions? Suggestions? Contact:

President Alix Blake at alix.blake@spokanetribe.com

Want to write an article or submit any type of fisheries-relevant information to this newsletter? Contact:

Brittany Jenewein at btjenewein@gmail.com

We want to hear from you!

The WA-BC Chapter of the American Fisheries Society, which includes members in Washington State and British Columbia, is an organization composed of professional biologists interested in the scientific conservation and enhancement of fish populations and their environment.

The mission of the Chapter is to:

- 1) advance the conservation and intelligent management of aquatic resources within a context of sound ecological principles,
- 2) gather and disseminate information pertaining to aquatic science and fisheries management, and
- 3) promote the educational and technical aspects of the fisheries profession.

In pursuit of our mission, we will strive to equitably represent the views of members, develop opportunities for effective leadership and conservation, and generate the resources necessary to carry out our programs.

**The next WA-BC Chapter Annual General Meeting will be held at: Hotel RL in Spokane, Washington
April 10–13, 2017**

Watch for the latest updates!
<http://agm.wabc-afs.org>