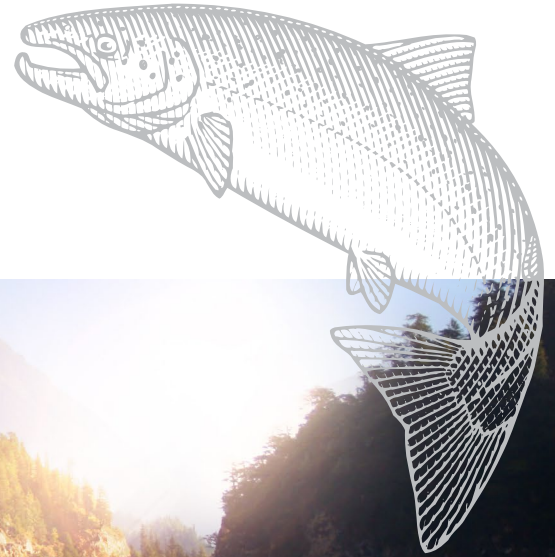




2022
International Conference
on River Connectivity

Tuesday – Thursday
June 14 – 16

Program



DISCOVERY HALL
at Pacific Northwest National Laboratory



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Acknowledgements

Thank you to our generous sponsors who made this conference possible! A complete list of our sponsors can be found on the conference website homepage: <https://fishpassage.fisheries.org/>.

Introduction

Welcome to Fish Passage 2022 – “Opportunities and Innovation in a Changing World”

On behalf of the Organizing Committee, welcome to the 11th International Conference on River Connectivity (commonly known as the Fish Passage Conference). This year’s conference is held in the Columbia River Basin, an area with a rich history of fish passage innovation and commitment to fish restoration. We hope that you will enjoy your experience during this 3-day conference and use the opportunity to exchange findings and experiences on fish passage and river connectivity best practices with international colleagues and experts. You will be able to network and share experiences with delegates from around the world, including researchers, practitioners, engineers, funders, government officials, and world-renowned experts. In this guide you will find that we have a full program featuring 19 sessions over 3 days, 178+ oral presentations in four parallel tracks, and 10 poster presentations. We also have a great side agenda that includes a welcome reception, banquet, workshops, and field trips. The session program includes research talks, industry presentations, panel discussions, and workshops. Sessions will cover current issues, designs, techniques, and emerging trends from various topics such as evaluating fish passage; decommissioning and removing dams; migrating downstream impacts; creating nature-like fishways; understanding fish behavior, identifying new and emerging technologies, innovative solutions, policy, and management; and much more. Have a look in this guide for a more detailed description of the sessions and the program. You can download the abstract document from our website at www.fishpassage.fisheries.org. We sincerely hope you enjoy your stay in Richland, Washington, and we wish you many interesting, informative, and rewarding interactions at this year’s conference!

Conference Planning Committee

This year’s conference was convened by fish passage enthusiasts from the Pacific Northwest of the United States, who were supported by an Advisory Board of world-renowned fish passage experts. Learn more about our planning team: <https://fishpassage.fisheries.org/about/>.

Plenary Speakers

<https://fishpassage.fisheries.org/program/>

Tuesday 14 June



Carol Evans
Chairwoman, Spokane Tribe of Indians

The Passage of Fish, Not Time, Heals Wounds

Carol Evans is the Chairwoman of the Spokane Tribal Business Council and is the first woman to serve as Tribal Chair. Prior to being elected to the Spokane Tribal Council in 2013, she worked for 28 years as the Chief Financial Officer for The Spokane Tribe of Indians. Carol graduated from Eastern Washington University with a Bachelor of Arts Degree in Business Administration and retains a CPA Inactive Certificate from the State of Washington.

On June 12, 2013, Carol took the oath of office for the Spokane Tribal Business Council. She is the second woman to be elected for a Tribal Council position, and her mother, Pauline Stearns, was the first Tribal Council woman of her Tribe. Carol resides on the Spokane Indian Reservation along the banks of the Spokane River with Terry Evans, her husband, of 44 years. They have four children ranging in age from 23 to 42.

Carol truly believes that our spiritual tradition shows us the way to live in harmony and balance that includes a deep conviction to respect all things. One must respect self, our Earth, and each other. Each and every matter of creation has a purpose, and one purpose is as important as another. Shay u hoy (that is all).

Wednesday 15 June



Dr. Gordon O'Brien
Senior Lecturer, University of Mpumalanga

*Past, Present, Pollution, Passage, and a Tigerfish Named Piet:
African Fishes in Peril?*

Dr. Gordon O'Brien is a professional (Pri.Sci.Nat) scientist and rated researcher (C2) from the University of Mpumalanga and Rivers of Life Programme in South Africa. His career vision is to undertake evidence-based research on water resources and their responses to multiple stressors for a sustainable future. He has 18 years of experience in water resource management and protection, ecological risk assessments, aquatic ecology, Ichthyology and fisheries, environmental flow assessments, and ecotoxicology. Gordon has worked in 16 African countries and collaborates with more than 10 international universities and institutes. He has published numerous peer reviewed papers and book chapters in international journals.

Thursday 16 June



Dr. Evelyn Habit
Full Professor, Universidad de Concepción

*How Important is River Connectivity for Small-Bodied,
Resident, Non-Game Fish Species?*

Dr. Evelyn Habit is a fish biologist and Full Professor at the Faculty of Environmental Science of Universidad de Concepción in Chile. Her research focus is on freshwater fish ecology and management. She addresses questions related to human activities as drivers of the status of freshwater fish populations and communities, emphasizing the conservation of Chilean native species. She is interested in unravelling the effects of multiple stressors on riverine watersheds by studying responses at different ecological levels and spatial and temporal scales. She is particularly interested in understanding the impacts of invasive species, flow regime alterations, physical connectivity changes, and climate change in Andean and Patagonian river basins.

Exhibitors and Sponsors

Exhibiting Sponsors

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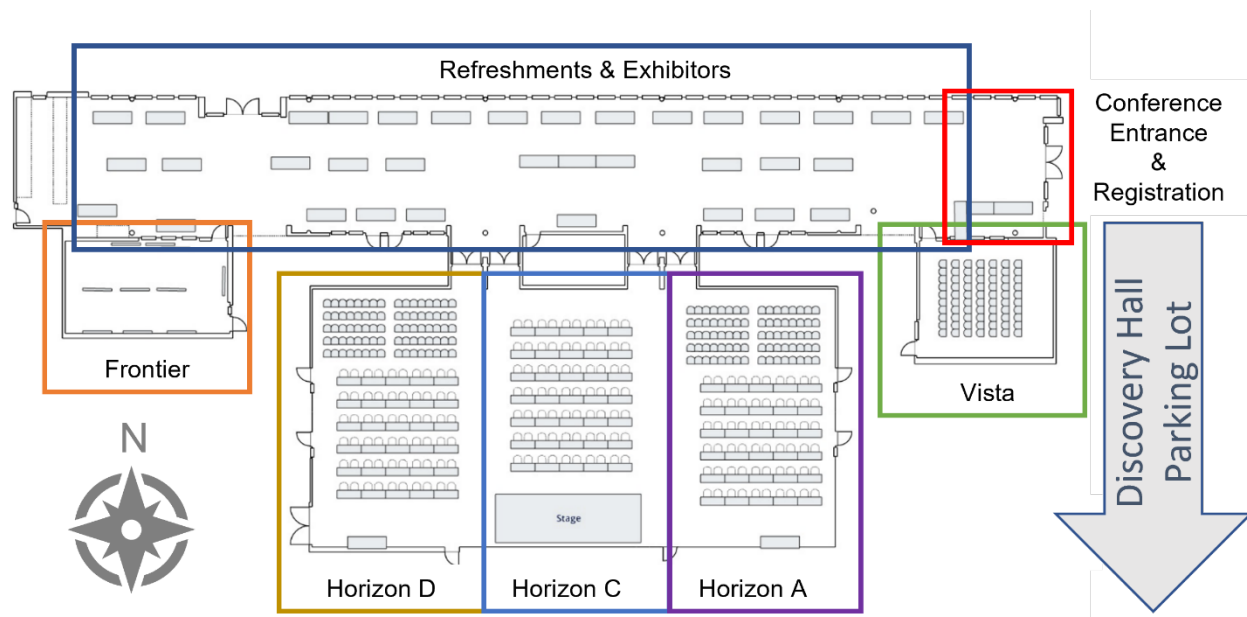
Venue Information – Pacific Northwest National Laboratory

The 2022 Fish Passage Conference is being held in [Discovery Hall](#) at [Pacific Northwest National Laboratory](#) in Richland, Washington. The street address for the venue is 650 Horn Rapids Road, Richland, WA 99354.

For those staying at the conference hotels, transportation will be provided to and from Discovery Hall from Tuesday through Thursday. See the [Bus Schedule](#) for transportation options.

The conference will use five conference rooms (Frontier, Vista, Horizon A, Horizon C, and Horizon D) in Discovery Hall (see below).

Complimentary WiFi will be available for on-site attendees of the conference.



Covid-19 Notice

PNNL follows state and CDC guidance regarding masks and social distancing. Currently, community transmission levels of COVID-19 in Richland are at Medium levels. As such, all visitors to the PNNL campus are required to attest to their vaccination status during check-in to the conference, complete a daily health checklist., and refrain from visiting the PNNL campus if they are symptomatic.

If you are unvaccinated and accessing the Richland campus, you are also required to

- Physically distance, and
- Provide a negative test result.

Registration

Conference registration for in-person attendees closed June 8, 2022. Registration for virtual attendees will remain open throughout the conference. No on-site registration will be available. In-person attendees can check in to the conference beginning at 7:30 am on Monday, June 13 in Discovery Hall. Attendees may also check-in Tuesday, June 14 through Thursday, June 16 beginning at 8:00 a.m.

Refreshments and Lunch

Light refreshments will be served in the morning and afternoon in Discovery Hall outside of the conference rooms.

Lunch will be catered for all conference attendees on Tuesday through Thursday. Vegan, vegetarian and gluten free options will be available for all meals.

Lunch and refreshments may also be served for workshop and field trip attendees, but details vary by event.

Socials and Banquet

The conference is offering three in-person social events to network with colleagues and celebrate the recent achievements in fish passage.

- On Monday, June 13, we invite you to join us for Happy Hour at [Iconic Brewing](#). Beverages and light snacks will be provided. No transportation will be provided for this off-site venue.
- On Tuesday, June 14, join us immediately following the concurrent sessions for our Welcome Social & Poster Session in Discovery Hall. Hors d'oeuvres and beverages will be provided. Transportation to the conference hotels will be provided following the social.
- On Wednesday, June 15, the conference banquet will be held at [Fable Craft Bar @ Fiction](#) in Richland. The banquet is included in the conference fees; however, registration is required. Transportation will be provided from conference hotels to and from the banquet.

Schedules and Abstracts

See the [Symposia and Presentation Schedule](#) for the full conference schedule and presentation abstracts.

Program At-A-Glance

See the full program at-a-glance on the conference website: <https://fishpassage.fisheries.org/program/>.

Day 1: Monday 13 June

Time (PDT)	Event	Location
7:30 – 8:00	Registration	Discovery Hall Lobby
8:00 – 16:00	Workshops	Discovery Hall (Registration Required)
17:30 – 19:00	Happy Hour	Iconic Brewing

Day 2: Tuesday 14 June

Time (PDT)	Event	Location
8:00	Registration Opens	Discovery Hall Lobby
8:30 – 9:00	Welcome Remarks	Discovery Hall Horizon
9:00 – 10:00	Plenary Speaker (Chairwoman Carol Evans)	Discovery Hall Horizon
10:00 – 10:30	Break (Light refreshments provided)	Discovery Hall Lobby
10:30 – 12:30	Concurrent Sessions	Discovery Hall
12:30 – 13:45	Lunch (Catered)	Discovery Hall Lobby
13:45 – 15:45	Concurrent Sessions	Discovery Hall
15:45 – 16:15	Break (Light refreshments provided)	Discovery Hall Lobby
16:15 – 17:35	Concurrent Sessions	Discovery Hall
17:30 – 19:00	Welcome Social and Poster Session (hors d'oeuvres provided)	Discovery Hall Lobby

Day 3: Wednesday 15 June

Time (PDT)	Event	Location
8:00	Registration Opens	Discovery Hall Lobby
8:30 – 8:45	Presentation of Career Achievement Award	Discovery Hall
8:45 – 9:45	Plenary Speaker (Dr. Gordon O’Brien)	Discovery Hall Horizon
9:45 – 10:15	Break (Light refreshments provided)	Discovery Hall Lobby
10:15 – 12:15	Concurrent Sessions	Discovery Hall
12:15 – 13:30	Lunch (Catered)	Discovery Hall Lobby
13:30 – 15:10	Concurrent Sessions	Discovery Hall
15:10 – 15:40	Break (Light refreshments provided)	Discovery Hall Lobby
15:40 – 17:20	Concurrent Sessions	Discovery Hall
18:00 – 21:00	Banquet (Dinner provided at 18:45)	Fable Craft Bar @Fiction
*9:00 – 13:00	Badger Mountain Guided Hike	Departs from Discovery Hall (Registration Required)

Day 4: Thursday 16 June

Time (PDT)	Event	Location
8:00	Registration Opens	Discovery Hall Lobby
8:30 – 8:45	Presentation of Distinguished Project Award	Discovery Hall
8:45 – 9:45	Plenary Speaker (Dr. Evelyn Habit)	Discovery Hall Horizon
9:45 – 10:15	Break (Light refreshments provided)	Discovery Hall Lobby
10:15 – 12:15	Concurrent Sessions	Discovery Hall
12:15 – 13:30	Lunch (Catered)	Discovery Hall Lobby
13:30 – 15:10	Concurrent Sessions	Discovery Hall
15:10 – 15:40	Break (Light refreshments provided)	Discovery Hall Lobby
15:40 – 17:00	Concurrent Sessions	Discovery Hall

Day 5: Friday 17 June

Time (PDT)	Event	Location
8:00 – 17:00	Field Trips	Various (Registration Required)

Conference Awards

<https://fishpassage.fisheries.org/awards/>

2022 Career Achievement Awardee: Alexander J. Haro

Research Ecologist, U.S. Geological Survey



2022 Distinguished Project Award: Restoring the Continuity of Two Rivers in Southern Poland

See their [1-pg description](#), [Biała Tarnowska River report](#), and [Wiśłoka River report](#) for more information.



Biała Tarnowska River – Grybow after modernization



Wiśłoka River – Szczepanowa after construction