



71st Annual Northwest Fish Culture Concepts **December 6 - 8, 2022** **Double Tree by Hilton – Portland, Oregon**

Dear Fish Culture Associates:

This is your invitation to attend the 71st Annual Northwest Fish Culture Concepts (NWFCC) event in Portland, Oregon, December 6 – 8, 2022. The U.S. Fish and Wildlife Service is pleased to be organizing this event at the Double Tree by Hilton Portland.

This conference continues to be extremely educational and beneficial for everyone attending, presenting, and exhibiting fish culture products. Registration is now open; go to the following link to register online with secure credit card payment options:

https://register.gtrnow.com/71st_Northwest_Fish_Culture_Concepts_Fresh

We recommend early conference registration as attendance is generally very strong and there are limited rooms available at the Double Tree by Hilton Portland where the conference is being held. The fee for early registration is \$150.00. Registration and payment must be made by November 4, 2022. After this date, registration fees increase to \$175.00.

Conveniently located at Lloyd Center Portland, OR the Double Tree by Hilton Portland is a full-service hotel with exercise room, swimming pool, restaurant, bar, and other amenities. They offer high speed internet connections in meeting rooms, and a business center.

NWFCC Hotel Rate

Single/Double Rate = \$139.00/night * Room rates are quoted exclusive of local taxes and fees, currently 15.3%*

We are looking forward to seeing you at this exciting fish culture conference. This year we are especially looking forward to presentations highlighting our 71st Annual NWFCC theme: ***Cultivating Success – The Future of Aquaculture in the Northwest Region.***

NWFCC 2022

Attached to this letter of invitation is our *First Call for Papers* which describes paper submission procedures for either oral or poster presentations. Early submission of abstracts and papers is requested.

Vendors have a great opportunity to interact with conference delegates as all breaks and socials will be held in vendor display areas. The Double Tree by Hilton has exceptional display space reserved for manufacturers and suppliers of fish culture related products and services. Exhibitors are encouraged to register and receive all the necessary information online at the conference website. A floor plan is available on request.

NWFCC 2022 Registration Information:

https://register.gtrnow.com/71st_Northwest_Fish_Culture_Concepts_Fresh

Additional information will be developed and posted on the AFS Fish Culture Section site:

<https://fishculture.fisheries.org/northwest-fish-culture-concepts/upcoming-nwfcc-workshop/>

Hotel Registration:

Double Tree by Hilton Portland,
1000 NE Multnomah Street
Portland, OR 97232
Dial Direct: (503) 281-6111

Online registration at:

<https://www.hilton.com/en/book/reservation/deeplink/?ctyhocn=RLLC-DT&groupCode=CDTNWF&arrivaldate=2022-12-05&departuredate=2022-12-09&cid=OM,WW,HILTONLINK,EN,DirectLink&fromId=HILTONLINKDIRECT>

If calling in to register at the hotel, be sure to mention the NW Fish Culture Concepts to get the special rate.

Questions: General, Registration or Special Requests:

General Conference questions: Jesse Rivera at: jesse_rivera@fws.gov Phone (360) 606-7478

Registration and Special Requests: Ryan Koch at: ryan_koch@fws.gov Phone: (360) 946-1222

Abstracts for Oral and Poster Presentations:

Abstract submission will be on-line with submission deadline of Wednesday, August 31

Submit abstracts online here: <https://app.oxfordabstracts.com/stages/4557/submitter>

Oral and Poster Presentation Questions? Please contact Jeremy Voeltz at: jeremy_voeltz@fws.gov
Phone: (623) 670-2854

FIRST CALL FOR PAPERS:

NWFCC 2022

Cultivating Success – The Future of Aquaculture in the Northwest Region

The deadline for submitting abstracts will be August 31, 2022 online via <https://app.oxfordabstracts.com/stages/4557/submitter>.

Preference will be given to submissions that follow the NWFCC 2022 session themes (as follows); however, all topics relevant to fish culture in the Northwest will be considered. Session topics will be:

- Fish Health and Nutrition
- Hatchery Innovations and Technology
- Rearing and Release Strategies
- Genetic Management
- Advances in Conservation Hatchery Science
- Non-Salmonid Fish Culture
- Climate vulnerabilities and adaptation strategies for fish hatcheries in the Pacific Northwest
- Data Management: What? Why? and How Much?
- Diversity – Putting the Culture in Fish Culture

Guidelines for submissions:

- 1) POSTER or ORAL – Please indicate presentation type before the abstract
- 2) TITLE – Center and bold title in Times New Roman, 12 point font, at top of abstract
- 3) PRESENTER(S) – list author(s) and designate presenter by a “ * “, employer or affiliation, mailing address, city, state, zip, and email should be included, superscript numbers can be used for authors with alternate contact information
- 4) ABSTRACT – (300 words max) – Use Times New Roman Font / Size 12 in MS Word
- 5) TABLES – A table or figure can be included with the abstract, but the entire “expanded” abstract (Abstract plus table or Figure) is restricted to one page total
- 6) SUBMISSIONS – Please submit by August 31, 2022 to <https://app.oxfordabstracts.com/stages/4557/submitter>
- 7) EXAMPLE – Please see following page for an example abstract
- 8) PRESENTATIONS – All presentations must be in Power Point, 15 minutes for presentation and 5 minutes for questions.
- 9) POSTERS – Posters need to fit in a 4’x4’ space, poster boards will be provided.

Example Abstract:

ORAL

Forecasting Spring Chinook Salmon adult returns within a management decision context

David Hand*¹ and Steven Haeseker¹

¹Columbia River Fisheries Program Office, USFWS, 1211 SE Cardinal Court Suite 100, Vancouver, Washington 98683, David_Hand@fws.gov

Fishery managers are often faced with making decisions under uncertainty. Pre-season adult return forecasts are used by managers to set pre-season harvest levels and hatchery broodstock collection plans, however forecast models often have wide prediction intervals around the forecast, indicating a high level of uncertainty. We used a retrospective analysis approach to assess different forecast models for hatchery and wild Spring Chinook Salmon (*Oncorhynchus tshawytscha*) returns to the Deschutes River, OR. Within the Deschutes River basin, Warm Springs National Fish Hatchery produces Spring Chinook Salmon for Tribal harvest and distribution to tribal members of the Confederated Tribes of the Warm Springs Reservation of Oregon. Fish produced from the hatchery also contribute to sport harvest opportunities. Additionally, a culturally and ecologically important run of wild Spring Chinook return to the Warm Springs River. Based on the retrospective analysis, the four “best” performing models for hatchery and wild returns are used to produce pre-season forecasts. We have developed additional forecasting tools to assist managers in their decision making. These tools are based upon management decision points, such as broodstock collection needs and minimum escapement goals for wild fish, and provide a probability of the salmon return being above or below a particular management decision point. Additionally, we provide weekly in-season run updates, based on PIT tag detections at Bonneville Dam, that allow managers to make near real-time adjustments to their management plans. We continue to assess forecast models and coordinate with managers in the basin to provide information that can be used within a decision context.