

ANNUAL KLAMATH RIVER FISH HEALTH WORKSHOP

Virtual Forum

Tuesday March 16th, 2021

Advance registration is required for this meeting:

https://oregonstate.zoom.us/meeting/register/tJAud-CgqTgtHtZfB_1AiNOugqJzlf4Hg8tG

After registering, you will receive a confirmation email containing information about joining the meeting.

AGENDA

9:00 am	<u>Welcome & overview</u> Jerri Bartholomew , OSU & Nicholas Hetrick , USFWS AFWO
	<u>Review of 2021 research and monitoring</u> Moderator: Jerri Bartholomew , OSU
9:10 am 15 mins	Scott Foott , USFWS CA-NV FHC Parasite and Aeromonid trends in Upper Klamath Lake 0+ chub fry (sucker surrogates)
9:25 am 10 mins	Stephen Atkinson , OSU Description of the invertebrate host for <i>Ceratonova shasta</i> and <i>Parvicapsula minibicornis</i> in the Klamath River
9:35 am 30 mins	Julie Alexander , OSU & Taylor Dayley , USFWS AFWO <ol style="list-style-type: none">1. Water year overview2. Annelid studies: monitoring and modeling
10:05 am	BREAK 10 minutes
10:15 am 30 mins	Anne Voss & Scott Foott , USFWS CA-NV FHC <ol style="list-style-type: none">1. Highlights of 2020 Klamath River Fish Health monitoring effort2. Pilot effort to link <i>C. shasta</i> DNA copy number to a histological disease rating3. Profile of gill versus intestine <i>C. shasta</i> infection in Feather River Chinook fry
10:45 am 10 mins	Ryan Craig , OSU Sentinel fish studies: <i>Ceratonova shasta</i> -associated mortality
10:55 am 10 mins	Sascha Hallett , OSU <i>Ceratonova shasta</i> waterborne spore abundance
11:05 am	BREAK 10 minutes
11:15 am 15 mins	General discussion – fish health monitoring
	<u>Research experiments</u> Moderator: Jerri Bartholomew , OSU
11:30 am 30 mins	Damien Barrett , OSU/UMiss What makes a fish resistant? Exploring the genetic basis of resistance to <i>Ceratonova shasta</i> in steelhead (<i>Oncorhynchus mykiss</i>)
12:00-12:30 pm	LUNCH 30 minutes

12:30 pm
30 mins
Leah Mellinger, UC Davis
Assessing brood stock fitness of *Ceratonova shasta* infected Chinook salmon's (*Oncorhynchus tshawytscha*) survivability during lab simulated Klamath River outmigration

Model updates

Moderator: **Nicholas Hetrick**, USFWS

1:00 pm
20 mins
Eve Robinson & Nicholas Som, USFWS AFWO
Applications of a *Ceratonova shasta* disease model

1:20 pm
BREAK 10 minutes

1:30 pm
20 mins
Russell Perry, USGS
Summary of 2020 disease dynamics for Chinook as simulated by S3, focusing on differential impacts among populations

1:50 pm
20 mins
Jenny Curtis, USGS
Sediment mobility and river corridor assessment for a 140-kilometer segment of the main-stem Klamath River below Iron Gate Dam

2:10 pm
10 mins
Torrey Tyler, BOR & **Nicholas Hetrick & Nicholas Som**, USFWS AFWO
Introduction to the Klamath Fish Health Database: the vision, status, and proposed process.

2:20 pm
BREAK 10 minutes

Open discussion

Moderators: **Nick Hetrick**, USFWS AFWO & **Jerri Bartholomew**, OSU

2:30 pm
1. Overview of Klamath dam removal and fish health activities: **Mike Belchik**, Yurok Tribe
2. FY21 planned projects/opportunities for collaboration
3. Discussion on key research/monitoring questions, data gaps/research needs

4:00 pm
ADJOURN