

**California-Nevada Chapter
American Fisheries Society
58th Biennial Meeting**



Breaching the Dam: Building Partnerships

April 9-12th 2024

Redding, CA

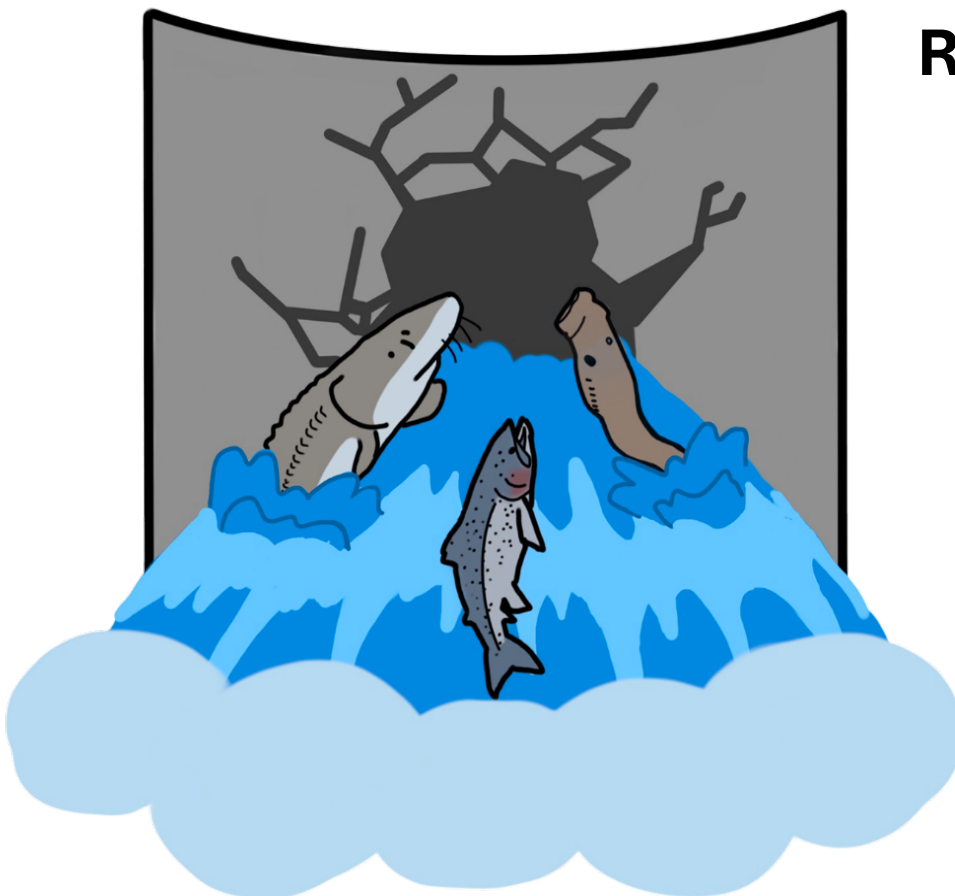


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Please see Whova for the most up to date agenda, announcements, and any last-minute changes during the conference. Whova can be downloaded at the following QR code, and the event can be found in the app by searching for American Fisheries Society California-Nevada Chapter 58th Meeting.



Planning Committee

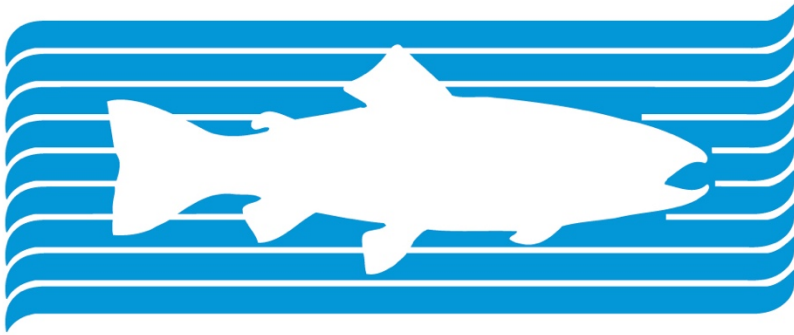
Planning Committee Chair	Christina Parker	Cal-Neva AFS President-Elect, CDFW
Time and Place, Catering	Kelly Souza	CDFW
Registration	Amanda Casby	RES
Continuing Education	Cynthia Le Doux-Bloom	Cal Poly Humboldt
Audio/Video	JT Casby	DWR
Agenda and Program	Wayne Lifton Christina Parker	Stantec CDFW
Exhibitors and Sponsors	Andrew Hampton Thomas Agosta	CDFW DWR
Poster Session	Eva Bush Nicole Kwan Christina Parker Kelly Souza	Cal-Neva AFS Past-President, Delta Stewardship Council DWR CDFW CDFW
Student Symposium Coordinator	Matea Djokic	University of California, Irvine
Student Mentor Networking Lunch	Adrienne Chenette Paige Gardner	University of California, Santa Cruz
Student Presentation and Poster Judging	Tyler Pilger	FISHBIO
Awards	Zach Bess	University of Nevada, Reno
Website and Social Media	Kathleen Berridge Adrienne Chenette	ESA University of California, Santa Cruz
Volunteer Coordinator	Claire Ingel	CDFW
Raffle	Joe Stanovich Andrew Hampton Dave Lentz	CDFW CDFW CDFW, Retired
Raffle MC	Joseph Merz	Cramer Fish Sciences
Merchandise	Kim Luke Matea Djokic	University of California, Davis University of California, Irvine
Treasurer	Thomas Agosta	DWR
Spawning Run	Mollie Ogaz	Cramer Fish Sciences
Logo Design	Kim Luke	University of California, Davis
Business Lunch	Miranda Tilcock	Cal-Neva AFS President, Delta Stewardship Council
Additional Planning Committee Members	Matt Young Ramona Swenson	U.S. Geological Survey ESA

*CDFW: California Department of Fish and Wildlife, DWR: California Department of Water Resources

Sponsors and Donors

Thank you to our generous sponsors and donors!

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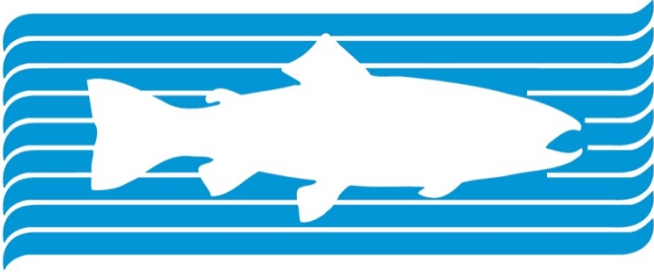
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Exhibitors

Visit our Exhibitor tables in the lobby!

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Plenary Speakers



Toz Soto

Fisheries Program Manager – Karuk Tribe

Toz Soto has spent the past 22 years working in the Klamath River. He studied fisheries at Humboldt State University. He’s lived most of his life “off grid” in western Siskiyou County and enjoys fishing from his drift boat with his teenage daughters. He enjoys working the Klamath River most because of its fish diversity, remoteness and never misses an opportunity to put on a wet suit and count Spring Run Chinook Salmon in places like Wooley Creek. He spent many years working on the Klamath Dam removal and looks forward to a day, not too far in the future, when Spring Run Chinook occupy the upper Klamath River.



Dr. Ann Willis

California Regional Director - American Rivers

Dr. Willis’s team leads river restoration projects from dam removal to hydropower relicensing, mountain meadow restoration, wildfire and fuels management, floodplain restoration, and urban river restoration. Prior to working at American Rivers, Dr. Willis led a research program at the UC Davis Center for Watershed Sciences, where she worked closely with NGOs, state and federal agencies, and private landowners to guide watershed-scale conservation strategies on working lands. Her research included rivers throughout California’s Central Valley, North Coast, and Klamath. She currently serves as an alternate on the Klamath River Renewal Corporation Board of Directors, providing oversight to the largest dam removal project ever undertaken.

Agenda in Brief

Tuesday, April 9

8:00 AM – 4:30 PM Location: Off-site	Continuing Education: Fantasy Floodplains (Field) Continuing Education: Cantara Revisited (Field)
10:00 AM – 4:00 PM Location: Cascade	Continuing Education: Drones in Fisheries
1:00 PM – 4:00 PM Location: Trinity	Continuing Education: Career Journey Workshop
1:00 PM – 4:00 PM Location: Siskiyou	Continuing Education: FFAST Workshop
6:00 PM – 9:00 PM Location: Turtle Bay Exploration Park - under the Sun Dial Bridge	O-fish-at Welcome Event!

Wednesday, April 10

9:30 AM – 11:45 AM Location: Sierra	Opening and Plenary
10:25 AM – 10:45 AM	Coffee Break
1:30 PM – 3:30 PM Location: Sierra	Chinook and Steelhead in California
1:30 PM – 3:30 PM Location: Siskiyou	California and Nevada Native Species
1:30 PM – 3:30 PM Location: Cascade	Sampling Approaches and Emerging Technologies in Fisheries Science
4:00 PM – 6:00 PM Location: Off-site at Turtle Bay Redding Garden of Lights	Happy Hour Networking Event (Turtle Bay) - Supported by RES
4:00 PM – 6:00 PM Location: Red Lion to Turtle Bay	Larry Brown Trout Spawning Run - Supported by EBMUD
6:15 PM – 10:30 PM Location: Sundial	Poster Session - Supported by FISHBIO and Metropolitan Water District

Thursday, April 11

8:00 AM – 9:40 AM	Food Webs and Growth Cycles. Impacts Of Diets and Habitats on Growth of Fishes.
Location: Cascade	
8:00 AM – 12:00 PM	A Collaboratory to Assess and Forecast Annual Spring-run Chinook Salmon Abundance in The Sacramento River Basin: Making, Managing, and Modeling Data Across Life Stages, Geographies, and Agency Boundaries.
Location: Siskiyou	
8:00 AM – 12:00 PM	Student Symposium: Talks from Fisheries' Upcoming Best and Brightest
Location: Trinity	
9:40 AM – 10:00 AM	Coffee Break - Supported by HDR
10:00 AM – 12:00 PM	Ichthyochemistry: Elements and Isotopes as Tracers of Foraging, Climate, And Migration in Fishes
Location: Cascade	
12:00 PM – 1:30 PM	Student Mentor Lunch
Location: Sundial	
1:30 PM – 5:10 PM	Building a Comprehensive Science Program to Guide Habitat and Flow Actions for Native Species, Supporting Healthy Rivers and Landscape
Location: Cascade	
1:30 PM – 4:50 PM	Enhancing Fisheries Management with Modern Genetic Tools
Location: Siskiyou	
3:10 PM – 3:30 PM	Coffee Break - Supported by HDR
6:00 PM – 10:30 PM	Dinner Banquet, Awards, Raffle, "Net" Gala, and Dancing!
Location: Sierra Trinity	

Friday, April 12

8:30 AM – 12:10 PM	Habitat Restoration and Shared Water Solutions in a Time of Climate Whiplash
Location: Trinity Cascade	
8:30 AM – 9:50 AM	Fishes and Zooplankton of the Sacramento-San Joaquin Delta and San Francisco Estuary
Location: Siskiyou	
10:10 AM – 10:30 AM	Coffee Break
12:30 PM – 2:30 PM	Cal-Neva Chapter Business Lunch
Location: Sundial	

Detailed Agenda

Tuesday, April 09, 2024

8:00 AM - 4:30 PM	CONTINUING EDUCATION: FANTASY FLOODPLAINS (FIELD)
8:00 AM - 4:30 PM	CONTINUING EDUCATION: CANTARA REVISITED (FIELD)
10:00 AM - 4:00 PM	CONTINUING EDUCATION: DRONES IN FISHERIES Location: Cascade Speaker: JT Casby
1:00 PM - 4:00 PM	CONTINUING EDUCATION: CAREER JOURNEY WORKSHOP Location: Trinity Speaker: Dr. Ramona Swenson
1:00 PM - 4:00 PM	CONTINUING EDUCATION: FFAST WORKSHOP Location: Siskiyou Speaker: Dr. Peter Dudley
3:30 PM - 5:30 PM	REGISTRATION Location: Red Lion Lobby
6:00 PM - 9:00 PM	O-FISH-AL WELCOME EVENT! Location: Off-site at Turtle Bay, under the Sundial Bridge

Wednesday, April 10, 2024

8:15 AM - 4:00 PM	ON-SITE REGISTRATION
9:30 AM - 11:45 AM	OPENING AND PLENARY Location: Sierra

WELCOME AND OPENING- BREACHING THE DAM: BUILDING PARTNERSHIPS

Location: Sierra
9:30 AM - 9:45 AM
Speaker: Christina Parker

THOUGHTS, UPDATES AND MUSING ABOUT OUR FISHERIES COMMUNITY, THE AMERICAN FISHERIES SOCIETY

9:45 AM - 10:15 AM
Speaker: Gary Whelan

WESTERN DIVISION AFS UPDATE

10:15 AM - 10:25 AM
Speaker: Laurie Earley

COFFEE BREAK

10:25 AM - 10:45 AM
Location: Lobby

PLENARY SPEAKER - TOZ SOTO

10:45 AM - 11:15 AM

PLENARY SPEAKER - DR. ANN WILLIS

11:15 AM - 11:45 AM

11:45 AM - 1:30 PM

Lunch on your own

1:30 PM - 3:30 PM

CHINOOK AND STEELHEAD IN CALIFORNIA

Location: Sierra
Moderators: Tyler Pilger

JUVENILE CHINOOK SURVIVAL AND MIGRATION ON THE TRINITY AND KLAMATH RIVERS

1:30 PM - 1:50 PM
Speaker: Chad Martel

LONGITUDINAL VARIATION IN CONSUMPTION OF JUVENILE FALL-RUN CHINOOK SALMON ALONG THE MIGRATION CORRIDOR

1:50 PM - 2:10 PM
Speaker: Matt Peterson

MODELING FALL-RUN CHINOOK SALMON POPULATION DYNAMICS IN THE STANISLAUS RIVER

2:10 PM - 2:30 PM
Speaker: Tyler Pilger

DO THEY STAY OR DO THEY GO: ESTIMATING SURVIVAL AND MIGRATION RATES OF JUVENILE STEELHEAD IN THE STANISLAUS RIVER

2:30 PM - 2:50 PM
Speaker: Lauren Yamane

EVALUATION OF ORIGIN AND LIFE-HISTORY STRATEGIES FOR CENTRAL VALLEY SPRING-RUN CHINOOK SALMON IN BATTLE CREEK

2:50 PM - 3:10 PM
Speaker: Kimberly Evans

EARLY-STAGE SURVIVAL OF ENDANGERED WINTER-RUN CHINOOK SALMON USING OTOLITH-BASED TEMPERATURE RECONSTRUCTIONS

3:10 PM - 3:30 PM
Speaker: Kohma Arai

1:30 PM - 3:30 PM

CALIFORNIA AND NEVADA NATIVE SPECIES

Location: Siskiyou
Moderators: Wayne Lifton

SHEDDING LIGHT ON LONGFIN SMELT (SPIRINCHUS THALEICHTHYS) REPRODUCTION: A STUDY ON MATURATION AND FECUNDITY

1:30 PM - 1:50 PM
Speaker: Nikolas Floros

DECLINE OF FISHES IN NORTH AMERICA'S OLDEST LAKE

1:50 PM - 2:10 PM
Speaker: Frederick Feyrer

WESTERN POND TURTLE POPULATIONS IN THE UPPER SAN JOAQUIN RIVER

2:10 PM - 2:30 PM
Speaker: Robert Stoddard

EXTIRPATION VS. RE-ESTABLISHMENT: DO WE JUST GIVE UP WHEN WE LOSE A NATIVE FISH FAUNA?

2:30 PM - 2:50 PM
Speaker: Stewart Reid

TRANSITIONAL STRATEGIES OF JUVENILE GREEN STURGEON FROM A RIVERINE TO A BRACKISH WATER ENVIRONMENT

2:50 PM - 3:10 PM
Speaker: Bill Poytress

DEVELOPMENT OF A STREAM TEMPERATURE MODEL FOR THE SANTA ANA RIVER, CALIFORNIA, WITH APPLICATION TO SANTA ANA SUCKER CONSERVATION

3:10 PM - 3:30 PM
Speaker: Marissa Wulff

1:30 PM - 3:30 PM

SAMPLING APPROACHES AND EMERGING TECHNOLOGIES IN FISHERIES SCIENCE

Location: Cascade
Moderators: Joseph Merz

DEVELOPMENT OF NONINTRUSIVE VIDEO SAMPLING METHODOLOGIES TO MONITOR SENSITIVE SPECIES AND HABITAT CONDITIONS WITHIN WADABLE STREAMS

1:30 PM - 1:50 PM
Speaker: Jordan Buxton

LAMPARA NETS AS A TOOL TO SAMPLE SHALLOW, NARROW, AND VEGETATED LOCATIONS: MONITORING RESTORED TIDAL WETLANDS IN THE UPPER SAN FRANCISCO ESTUARY

1:50 PM - 2:10 PM
Speaker: Emma Davidson

BEST OF BOTH WORLDS: LEVERAGING OPEN AND CLOSED SAMPLING DESIGNS TO EXPAND SAMPLE SIZE AND CORRECT FOR DETECTION EFFICIENCY IN SANTA ANA RIVER NATIVE FISH SURVEYS

2:10 PM - 2:30 PM
Speaker: Brock Huntsman

THE PLATFORM: A NOVEL, LOW-IMPACT METHOD FOR STANDARDIZING FISH MONITORING

2:30 PM - 2:50 PM
Speaker: Joseph Merz

WHAT'S GOING ON DOWN THERE? OBSERVING FISH DURING DELTA SMELT EXPERIMENTAL RELEASES INFERRED FROM ARIS SONAR

2:50 PM - 3:10 PM
Speaker: Veronica Violette

ENHANCING ECOLOGICAL ASSESSMENTS THROUGH CONTINUOUS MONITORING: A CASE STUDY ON ZOOPLANKTON AND FISH DYNAMICS

3:10 PM - 3:30 PM
Speaker: Bobbie Flores

4:00 PM – 6:00 PM

HAPPY HOUR NETWORKING EVENT (TURTLE BAY) – Supported by RES

Location: Off-site at Turtle Bay, Redding Garden of Lights

4:00 PM – 6:00 PM

LARRY “BROWN TROUT” SPAWNING RUN - Supported by EBMUD

Location: Red Lion to Turtle Bay
Organizer: Mollie Ogaz

6:15 PM - 10:30 PM

POSTER SESSION - Supported by FISHBIO and Metropolitan Water District

Location: Sundial
Organizer: Christina Parker

Thursday, April 11, 2024

7:45 AM - 5:15 PM

ON-SITE REGISTRATION

8:00 AM - 9:40 AM

FOOD WEBS AND GROWTH CYCLES. IMPACTS OF DIETS AND HABITATS ON GROWTH OF FISHES

Location: Cascade
Moderators: Dave Lentz

TRACKING SHIFTS IN WINTER-RUN CHINOOK SALMON MARINE DIETS OVER THE PAST DECADE USING STABLE ISOTOPES IN ARCHIVAL SCALES

8:00 AM - 8:20 AM
Speaker: Miranda Lowe-Webb

WHAT HAPPENS WHEN YOU BRING THE SEASONS BACK: FOOD-WEB AND FISH RESPONSES TO FLOW RESTORATION

8:20 AM - 8:40 AM
Speaker: Justin Clause

**INVESTIGATING MARINE DIETS AND THEIR LINKAGES TO THIAMINE DEFICIENCY IN CALIFORNIA
CENTRAL VALLEY CHINOOK SALMON**

8:40 AM - 9:00 AM

Speaker: Alexandra Chu

LOSS OF AN INVASIVE FISH PREDATOR CAUSES TROPHIC REARRANGEMENT

9:00 AM - 9:20 AM

Speaker: Michael Marchetti

8:00 AM - 12:00 PM

**A COLLABORATORY TO ASSESS AND FORECAST ANNUAL SPRING-RUN CHINOOK
SALMON ABUNDANCE IN THE SACRAMENTO RIVER BASIN: MAKING, MANAGING,
AND MODELING DATA ACROSS LIFE STAGES, GEOGRAPHIES, AND AGENCY
BOUNDARIES**

Location: Siskiyou

Moderators: Brett Harvey

**BUILDING A COLLABORATORY TO ASSESS AND FORECAST ANNUAL SPRING-RUN CHINOOK SALMON
ABUNDANCE IN THE SACRAMENTO RIVER BASIN, CA**

8:00 AM - 8:20 AM

Speaker: Brett Harvey

**CATCH ME IF YOU CAN! – MONITORING SPRING–RUN CHINOOK SALMON IN THE SACRAMENTO RIVER
WATERSHED TO DEVELOP A JUVENILE PRODUCTION ESTIMATE**

8:20 AM - 8:40 AM

Speaker: Anna Allison

**BUILDING INFORMATION BRIDGES FOR SPRING-RUN CHINOOK SALMON: A DATA-CENTRIC
APPROACH TO A JUVENILE PRODUCTION ESTIMATE**

8:40 AM - 9:00 AM

Speakers: Ashley Vizek, Erin Cain

**NEED FOR SPEED: RAPID, HIGH-THROUGHPUT GENETIC IDENTIFICATION OF CHINOOK SALMON RUN-
TYPES IN THE SACRAMENTO RIVER BASIN**

9:00 AM - 9:20 AM

Speaker: Sean Canfield

THE PLAD MODEL: A PROBABILISTIC MODELING FRAMEWORK FOR MIXED STOCK ANALYSIS

9:20 AM - 9:40 AM

Speaker: Noble Hendrix

**KNOW THY NEIGHBOR: USING INFORMATION ACROSS TRIBUTARIES AND TIME TO ESTIMATE
ABUNDANCE OF JUVENILE CHINOOK SALMON FROM SPARSE ROTARY SCREW TRAP DATA IN
THE SACRAMENTO RIVER, CA**

10:00 AM - 10:20 AM

Speaker: Josh Korman

A MODELING APPROACH FOR OPTIMIZING SPRING-RUN CHINOOK SALMON ADULT MONITORING DATA

10:20 AM - 10:40 AM

Speaker: Elizabeth Stebbins

**USING STOCK-RECRUIT MODELS TO EVALUATE THE EFFECTS OF ESCAPEMENT AND ENVIRONMENTAL
COVARIATES ON SPRING-RUN CHINOOK SALMON OUTMIGRANT ABUNDANCE**

10:40 AM - 11:00 AM

Speaker: Josh Korman

**WHAT ARE THE ODDS? FORECASTING FUTURE SURVIVAL RATES FOR SUB-YEARLING SPRING-
RUN CHINOOK SALMON SMOLTS IN THE MAINSTEM SACRAMENTO RIVER, CA**

11:00 AM - 11:20 AM

Speaker: Flora Cordoleani

**FATES OF YEARLING SPRING-RUN CHINOOK SALMON NEAR CALIFORNIA'S LARGEST FRESHWATER
DIVERSIONS**

11:20 AM - 11:40 AM

Speaker: Jasmine Williamshen

DELIBERATIONS, DATA AND DECISIONS FOR A SPRING-RUN JPE: A STRUCTURED GUIDE TO MAKING COLLABORATIVE DECISIONS WITHOUT LOSING YOUR SANITY!

11:40 AM - 12:00 PM

Speaker: Kimberly Horndeski

8:00 AM - 12:00 PM

STUDENT SYMPOSIUM: TALKS FROM FISHERIES' UPCOMING BEST AND BRIGHTEST

Location: Trinity

Moderators: Matea Djokic

USING LONG-TERM MONITORING DATA TO INFER ENVIRONMENTAL SENSITIVITY IN ESTUARINE FISHES

8:00 AM - 8:20 AM

Speaker: Caroline Newell

RESTORING FOR PELAGIC PRODUCTIVITY: A CASE STUDY AT DUTCH SLOUGH TIDAL RESTORATION IN OAKLEY, CALIFORNIA

8:20 AM - 8:40 AM

Speaker: Lynette Williams

FACTORS THAT ATTRACT YELLOWFIN TUNA, *THUNNUS ALBACARES*, TO FIXED FISH AGGREGATING DEVICES (FADS) IN THE GALAPAGOS ISLANDS

8:40 AM - 9:00 AM

Speaker: Sarah Moreau

EFFECTS OF SHORT-TERM FLOW REDUCTIONS ON JUVENILE *ONCORHYNCHUS MYKISS*: AN EXPERIMENT AT THE SIERRA NEVADA AQUATIC RESEARCH LAB

9:00 AM - 9:20 AM

Speaker: Kelly Goedde-Matthews

GENETIC COMPOSITION AND DISTRIBUTION OF ADAPTIVE VARIATION IN SALMONID *ONCORHYNCHUS MYKISS* ABOVE AND BELOW BARRIERS IN PUTAH CREEK, CALIFORNIA.

9:20 AM - 9:40 AM

Speaker: Laura Goetz

THE CONSERVATION STATUS OF NEVADA'S NATIVE FISHES: ASSESSING RISK AND QUANTIFYING CONSERVATION THREATS

10:00 AM - 10:20 AM

Speaker: Zachary Bess

POPULATION DYNAMICS AND ALTERNATIVE FORECAST MODELS FOR SACRAMENTO RIVER FALL CHINOOK

10:20 AM - 10:40 AM

Speaker: Emily Chen

FARM TO PHYTO: AGRICULTURAL LANDSCAPES AFFECT WATER CHEMISTRY AND PELAGIC PRIMARY PRODUCTIVITY IN TIDAL WATERWAYS OF THE SACRAMENTO-SAN JOAQUIN DELTA

10:40 AM - 11:00 AM

Speaker: Brian Williamshen

LAMPREYS IN CALIFORNIA: MITOCHONDRIAL PHYLOGENETIC ANALYSIS REVEALS PREVIOUSLY UNRECOGNIZED LAMPREY DIVERSITY

11:00 AM - 11:20 AM

Speaker: Grace Auringer

FISH IN THE CITY: URBAN RUNOFF ALTERS THE GUT MICROBIOME AND PHYSIOLOGY OF WESTERN MOSQUITOFISH

11:20 AM - 11:40 AM

Speaker: Matea Djokic

ENVIRONMENTAL AND SPATIAL DRIVERS OF GROWTH PATTERNS OF QUILLBACK ROCKFISH (*SEBASTES MALIGER*) IN CALIFORNIA AND THE NORTHEAST PACIFIC OCEAN

11:40 AM - 12:00 PM

Speaker: Claire Stuart

9:40 AM - 10:00 AM

COFFEE BREAK - Supported by HDR

Location: Lobby

10:00 AM - 12:00 PM

ICHTHYOCHEMISTRY: ELEMENTS AND ISOTOPES AS TRACERS OF FORAGING, CLIMATE, AND MIGRATION IN FISHES

Location: Cascade

Moderators: Levi S. Lewis

OTOLITH-BASED INSIGHTS AND MANAGEMENT IMPLICATIONS REGARDING THE GROWTH, PHENOLOGY, LIFE HISTORY, GENETICS, FECUNDITY, AND FITNESS OF DELTA SMELT

10:00 AM - 10:20 AM

Speaker: Levi S. Lewis

OTOLITH-BASED AGE, GROWTH, AND LIFE HISTORY OF ADULT LONGFIN SMELT

10:20 AM - 10:40 AM

Speaker: Alex Lama

DEVELOPING BATCH TAGGING TECHNIQUES FOR CULTURED DELTA SMELT

10:40 AM - 11:00 AM

Speaker: Brian Alper

EVIDENCE FOR CONTINUED SUCCESS AND RECRUITMENT OF STRIPED BASS IN THE UMPQUA ESTUARY, OREGON

11:00 AM - 11:20 AM

Speaker: Dylan Stompe

LEVERAGING COMMUNITY SCIENCE AND FIN RAY MICROCHEMISTRY TO UNDERSTAND THE IMPACT OF SAN FRANCISCO BAY HARMFUL ALGAL BLOOMS ON CALIFORNIA STURGEON

11:20 AM - 11:40 AM

Speaker: Kirsten Sellheim

FISH BLOOD RESPONSE TO ASH-INDUCED ENVIRONMENTAL ALKALINIZATION, AND THEIR IMPLICATIONS TO WILDFIRE-SCARRED WATERSHEDS

11:40 AM - 12:00 PM

Speaker: Garfield Kwan

12:00 PM - 1:30 PM

STUDENT MENTOR LUNCH

Location: Sundial

1:30 PM - 5:10 PM

BUILDING A COMPREHENSIVE SCIENCE PROGRAM TO GUIDE HABITAT AND FLOW ACTIONS FOR NATIVE SPECIES, SUPPORTING HEALTHY RIVERS AND LANDSCAPE

Location: Cascade

Moderators: Pascale Goertler

BUILDING A COMPREHENSIVE SCIENCE PROGRAM TO GUIDE HABITAT AND FLOW ACTIONS FOR NATIVE SPECIES, SUPPORTING HEALTHY RIVERS AND LANDSCAPES

1:30 PM - 1:50 PM

Speaker: Pascale Goertler

LONG-TERM EFFECTIVENESS MONITORING AND ADAPTIVE MANAGEMENT ON THE AMERICAN RIVER AND INTEGRATION WITH THE VA SCIENCE PROGRAM

1:50 PM - 2:10 PM

Speaker: Erica Bishop

MAXIMIZING SALMON FISHERIES OUTCOMES IN CALIFORNIA THROUGH FLOW AND HABITAT ENHANCEMENTS: PERSPECTIVES FROM THE MOKELUMNE RIVER

2:10 PM - 2:30 PM

Speaker: Michelle Workman

MISSED CONNECTIONS: THE CRITICAL ROLE OFF-CHANNEL HABITATS PLAY IN SUPPORTING HEALTHY RIVERS AND LANDSCAPES

2:30 PM - 2:50 PM

Speaker: Josh Martinez

ROCK ON, ROCK OFF - RESTORING PHYSICAL PROCESSES AND HABITATS WHILE REDUCING FLOOD RISK ON THE SACRAMENTO RIVER, CA

2:50 PM - 3:10 PM

Speaker: Adam Henderson

EVALUATING EFFECTS OF VA ACTIONS ON EXPECTED SALMONID HABITAT AVAILABILITY ACROSS MULTIPLE LIFE STAGES

3:30 PM - 3:50 PM

Speaker: Lisa Elliott

CHALLENGES AND POTENTIAL SOLUTIONS FOR DETECTING SALMON PRODUCTION BENEFITS RESULTING FROM THE VA

3:50 PM - 4:30 PM

Speaker: Brad Cavallo

PANEL (40 MIN): A DIALOGUE ON CHALLENGES, OBSTACLES, AND OPPORTUNITIES WITHIN THE AGREEMENTS TO SUPPORT HEALTHY RIVERS AND LANDSCAPES PROGRAM

4:30 PM - 5:10 PM

Speaker: Heidi Williams

1:30 PM - 4:50 PM

ENHANCING FISHERIES MANAGEMENT WITH MODERN GENETIC TOOLS

Location: Siskiyou

Moderators: Jeff Rodzen

QUANTIFYING THE EVOLUTIONARY POTENTIAL FOR DELTA SMELT PERSISTENCE IN A WARMING HABITAT.

1:30 PM - 1:50 PM

Speaker: Joanna Griffiths

CALIFORNIA'S INTERIOR REDBAND TROUT – PATTERNS OF GENETIC UNIQUENESS PERSIST IN LIGHT OF DECADES OF TROUT STOCKING

1:50 PM - 2:10 PM

Speaker: Jeff Rodzen

GENE FLOW BETWEEN CALIFORNIA TROUT POPULATIONS

2:10 PM - 2:30 PM

Speaker: Cheyenne Payne

CATCHING WHAT YOU CAN'T SEE: TARGETED REMOVAL OF INVASIVE LOACHES USING EDNA

2:30 PM - 2:50 PM

Speaker: Katie Karpenko

BOOSTING INSIGHTS INTO WINTER-RUN CHINOOK RECOVERY: ADDING GENETIC RESOLUTION TO EXISTING MONITORING

2:50 PM - 3:10 PM

Speaker: Scott Blankenship

ENVIRONMENTAL RNA (ERNA) DISTINGUISHES SEX AND MATURITY IN TANKS CONTAINING PACIFIC LAMPREY: RESULTS FROM A COMMON GARDEN EXPERIMENT

3:30 PM - 3:50 PM

Speaker: Dan Bingham

ARTEMIS YOU THERE FISH? IT'S ME SCIENCE – APPLICATION OF THE {ARTEMIS} PACKAGE TO DESIGN A LARVAL DELTA SMELT EDNA SAMPLING PROTOCOL

3:50 PM - 4:10 PM

Speaker: Avery Scherer

DEVELOPMENT AND GENETIC MONITORING OF A THIAMINE DEFICIENCY COMPLEX TOLERANT ATLANTIC SALMON BROODSTOCK

4:10 PM - 4:30 PM

Speaker: Laurie Earley

THE GENOMIC BASIS OF MIGRATION TIMING IN ADULT CHINOOK SALMON FROM THE CALIFORNIA CENTRAL VALLEY

4:30 PM - 4:50 PM

Speaker: John Carlos Garza

3:10 PM - 3:30 PM

COFFEE BREAK - Supported By HDR

Location: Lobby

6:00 PM - 10:30 PM

DINNER BANQUET, AWARDS, RAFFLE, "NET" GALA, AND DANCING!

Location: Sierra Trinity

Friday, April 12, 2024

8:15 AM - 12:00 PM

ON-SITE REGISTRATION

8:30 AM - 12:10 PM

HABITAT RESTORATION AND SHARED WATER SOLUTIONS IN A TIME OF CLIMATE WHIPLASH

Location: Trinity Cascade

Moderators: Robert Stoddard

BRINGING SALMON HOME: LESSONS LEARNED FROM THE JUVENILE SALMONID COLLECTION SYSTEM ON THE MCCLLOUD RIVER

8:30 AM - 8:50 AM

Speaker: Theo Claire

THE PROCESS PARADOX: OVERCOMING CHALLENGES FOR PROCESS-BASED RESTORATION IN THE REGULATED RIVERS OF CALIFORNIA'S CENTRAL VALLEY

8:50 AM - 9:10 AM

Speaker: Rocko Brown

IMPROVING DROUGHT RESILIENCE FOR WATER SUPPLY AND NATIVE FISHES IN THE UPPER SACRAMENTO BASIN: ASSESSING LARGE GROUNDWATER SPRING SENSITIVITY TO CLIMATE CHANGE, DROUGHT AND THEIR CONTRIBUTION TO NATIVE FISH LIFE HISTORY

9:10 AM - 9:30 AM

Speaker: Tyanna Blaschak

A VISION FOR ENHANCING AND MANAGING THE LOWER STANISLAUS RIVER FOR FISH, WILDLIFE, AND PEOPLE

9:30 AM - 9:50 AM

Speaker: J.D. Wikert

A SHARED SOLUTION: SEASONAL WATER EXCHANGES AMONG RESERVOIRS TO HELP MANAGE UPPER SACRAMENTO RIVER WATER TEMPERATURES.

9:50 AM - 10:10 AM

Speaker: John Spranza

SALMONID SPAWNING AND JUVENILE REARING HABITAT ENHANCEMENT EFFECTIVENESS MONITORING ACROSS VARYING FLOWS IN THE LOWER AMERICAN RIVER: CHALLENGES AND OPPORTUNITIES

10:30 AM - 10:50 AM

Speaker: Maeghen Wedgeworth

EVALUATING THE EFFECTIVENESS OF DAM REMOVAL ON THE KLAMATH RIVER USING SONAR AND RADIO TELEMETRY

10:50 AM - 11:10 AM

Speaker: Damon Goodman

PREDATION OF NATIVE FISHES BY INTRODUCED PISCIVOROUS FISH SPECIES IN THE SANTA ANA RIVER, CALIFORNIA

11:10 AM - 11:30 AM

Speaker: Jeff Gronemyer

VARIATION IN JUVENILE REARING AND EMIGRATION STRATEGIES IN A POPULATION OF ENDANGERED CENTRAL COAST COHO SALMON

11:30 AM - 11:50 AM
Speaker: Henry Baker

EFFECTS OF OFF-CHANNEL HABITAT ENHANCEMENT ON JUVENILE SALMONID REARING AND GROWTH ON THE LOWER YUBA RIVER

11:50 AM - 12:10 PM
Speaker: Mollie Ogaz

8:30 AM - 9:50 AM

FISHES AND ZOOPLANKTON OF THE SACRAMENTO-SAN JOAQUIN DELTA AND SAN FRANCISCO ESTUARY

Location: Siskiyou
Moderators: Matthew Young

SPATIAL AND TEMPORAL ZOOPLANKTON TRENDS IN THE CACHE-LINDSEY SLOUGH COMPLEX FROM 2014-2023

8:30 AM - 8:50 AM
Speaker: Kim Luke

AN EXPLORATION OF MULTI-SCALE DRIVERS OF NORTHERN ANCHOVY (*ENGRAULIS MORDAX*) DISTRIBUTION IN THE SAN FRANCISCO ESTUARY

8:50 AM - 9:10 AM
Speaker: Danielle Palm

MOVEMENT AND DEMOGRAPHICS OF STRIPED BASS IN A LARGE REGULATING FOREBAY

9:10 AM - 9:30 AM
Speaker: Taylor Spaulding

PATTERN, PROCESS, AND POMOXIS: THE ROLE OF BLACK CRAPPIE AND OTHER UNDERSTUDIED FISHES IN LITTORAL FOOD WEBS OF THE SACRAMENTO-SAN JOAQUIN DELTA

9:30 AM - 9:50 AM
Speaker: Matthew Young

12:30 PM - 2:30 PM

CAL-NEVA CHAPTER BUSINESS LUNCH

Location: Sundial

Posters

PISCIVOROUS BIRDS ARE SELECTING FOR RESTORED TIDAL HABITAT AIMED TOWARDS FISH CONSERVATION IN SUISUN MARSH, SAN FRANCISCO ESTUARY, CA

Poster 1 Presenter: Abigale Deen

EXAMINING THE EFFECTS OF MANAGEMENT PRACTICES ON PLANKTON PRODUCTIVITY IN MANAGED WETLANDS OF SUISUN MARSH, SAN FRANCISCO ESTUARY

Poster 2 Presenter: Francheska Torres

MONITORING *ONCORHYNCHUS MYKISS* IN THE STANISLAUS RIVER USING ACOUSTIC TELEMETRY

Poster 3 Presenter: Eric Louwerens

NOVEL NITROGEN PATHWAYS IN SUISUN MARSH

Poster 4 Presenter: Kim Luke

RESULTS FROM THE POST CARR FIRE BIOASSESSMENT, WHISKEYTOWN NATIONAL RECREATION AREA, SHASTA COUNTY, CALIFORNIA

Poster 5 Presenter: Marissa Wulff

AN EXPANDED YEAR CLASS INDEX FOR WHITE STURGEON IN THE SAN FRANCISCO ESTUARY, CALIFORNIA

Poster 6 Presenter: Dylan Stompe

THE BARRIERS OF RECOLONIZING POLE CREEK, IDAHO

Poster 7 Presenter: Shea Johnson

EXAMINATION OF AGE CLASS NICHE VARIATION OF BROADNOSE SEVENGILL SHARK (*NOTORYNCHUS CEPEDIANUS*) IN SAN FRANCISCO BAY THROUGH STABLE ISOTOPE ANALYSIS

Poster 8 Presenter: Kimberly Stauffer

SACRAMENTO-SAN JOAQUIN DELTA OUTFLOW INFLUENCES ON SUBMERSED AQUATIC VEGETATION

Poster 9 Presenter: Yuexuan Liu

EFFECTS OF A RESTORED SIDE CHANNEL ON THE AQUATIC FOOD WEB IN THE LOWER YUBA RIVER UNDER A RANGE OF FLOW CONDITIONS

Poster 10 Presenter: Mitch Gladding

LIFE HISTORY DIVERSITY AND POPULATION COMPOSITION OF JUVENILE CALIFORNIAN CHINOOK SALMON USING OTOLITH STRONTIUM ISOTOPE RATIOS (87SR/86SR)

Poster 11 Presenter: Kohma Arai

WHAT CAN THE WESTERN DIVISION OF THE AMERICAN FISHERIES SOCIETY (WDAFS) DO FOR YOU?

Poster 12 Presenter: Laurie Earley

JUVENILE CHINOOK SALMON LIFE HISTORY VARIATION AND PHENOTYPE SUCCESS ON THE AMERICAN RIVER

Poster 13 Presenter: Karyme Orozco

SPATIAL PATTERNS AND DRIVERS OF PREDATORY FISH HOTSPOTS IN A LARGE REGULATING RESERVOIR

Poster 14 Presenter: Rick Wilder

AQUATIC INVERTEBRATE COMMUNITIES DIFFER ACROSS A DIVERSION DAM IN A NORTHERN CALIFORNIA STREAM

Poster 15 Presenter: Kyle Elshoff

FISH IN THE YOLO BYPASS: THEN, NOW, AND THE BIG NOTCH FUTURE

Poster 16 Presenter: Nicole Kwan

HUNTING FOR UNICORNS: USING OTOLITH-BASED TOOLS TO IDENTIFY THE ELUSIVE 2-YEAR-OLD DELTA SMELT

Poster 17 Presenter: Claire Chung

EYES ON GROWTH: INVESTIGATING EYE LENS DIAMETER WITH JUVENILE SALMON AGE AND GROWTH RATES

Poster 18 Presenter: Paloma Herrera-Thomas

A “ROBIN HOOD” APPROACH TO SETTING HARVEST LIMITS FOR DATA-POOR NATIVE FRESHWATER FISHES

Poster 19 Presenter: Alexandria Ginez

ADULT SALMONID SONAR MONITORING PROGRAM - LOWER MAINSTEM EEL AND VAN DUZEN RIVERS

Poster 20 Presenter: Amanda Nordstrom

INDEXING NOVEL POND ECOSYSTEMS FOR AN EXTIRPATED NATIVE FISH

Poster 21 Presenter: Mason Rogers

SALVAGING SCRAPPED SMOLTS FOR SCIENCE: UTILIZING OTOLITH GEOCHEMISTRY TO IDENTIFY ORIGINS OF JUVENILE CHINOOK SALMON PREYED UPON BY AN ENDANGERED AVIAN PISCIVORE

Poster 22 Presenter: Sami Araya

EVOLUTION OF A PASSIVE FISH SAMPLING VIDEO CAMERA SYSTEM

Poster 23 Presenter: Ethan Skiles

ESTIMATING SURVIVAL OF CHINOOK SALMON EGGS AND MEASURING HYPORHEIC CONDITIONS DURING INCUBATION IN THE SACRAMENTO RIVER

Poster 24 Presenter: Jamie Byrne

CODED-WIRE TAG COHORT RECONSTRUCTION R TOOL

Poster 25 Presenter: Erin Redding

PRESERVATION, ENHANCEMENT, AND RESTORATION OF AQUATIC HABITATS: UTILIZING FISHERIES SURVEY METHODS TO INFORM THE DEVELOPMENT OF THE MENDOCINO COAST MITIGATION BANK

Poster 26 Presenter: Amanda Casby

PROTECTING SOUTHERN CALIFORNIA STEELHEAD FROM EXTINCTION BY USE OF COALITION EFFORTS

Poster 27 Presenter: Elizabeth Burns

REVITALIZING COHO SALMON POPULATIONS IN RESERVATION STREAMS WITH A TRIBALLY RUN CONSERVATION HATCHERY

Poster 28 Presenter: Alex Eaton

EFFECTS OF A HEAD-OF-RESERVOIR JUVENILE SALMONID COLLECTION SYSTEM ON WATER QUALITY AND HYDRAULICS

Poster 29 Presenter: Tyler Keys

ASSESSMENT OF GAMETIC AND POSTZYGOTIC COMPATIBILITY BETWEEN ENDEMIC DELTA SMELT (*HYPOMESUS TRANSPACIFICUS*) AND NON-NATIVE WAKASAGI (*HYPOMESUS NIPPONENSIS*)

Poster 30 Presenter: Marzieh Asadi Aghbolaghi

ASSESSING FISH PASSAGE IN A NEWLY CONSTRUCTED FISH LADDER USING AN ARIS EXPLORER 3000

Poster 31 Presenter: Bret Fessenden

BASELINE CHARACTERIZATION OF THE FISH COMMUNITY IN THE LOWER KLAMATH RIVER ESTUARY

Poster 32 Presenter: Jose Marin Jarrin

ZOOPLANKTON DENSITY AND PELAGIC FISH ABUNDANCE IN THE NORTH SACRAMENTO-SAN JOAQUIN RIVER DELTA

Poster 33 Presenter: Desiree Hardin

WHAT IS THE NEVADA COOPERATIVE FISH & WILDLIFE RESEARCH UNIT? GRADUATE EDUCATION, COLLABORATIVE RESEARCH, AND TECHNICAL ASSISTANCE FOR FISH AND WILDLIFE CONSERVATION AND MANAGEMENT IN NEVADA AND BEYOND

Poster 34 Presenter: Jeffrey A. Falke

JUST KEEP SWIMMING: SURVIVAL OF UPPER KLAMATH BASIN JUVENILE CHINOOK SALMON OUTMIGRATION

Poster 35 Presenter: James Whelan

INVESTIGATING CHALLENGES THAT WOMEN FISHERY BIOLOGISTS ENCOUNTER IN THE FIELD

Poster 36 Presenter: Sarah Moreau