

Schedule of Oral Presentations • Monday, May 4 • Afternoon Session

Monday May 4	Fish Barriers & Piscicides (Part I): Challenges & Achievements with Tools of the Trade for Native Fish Restoration	Aquatic Invasive Species	The Legal, Political, and Economic Challenges of Fish Protection and Recovery in New Mexico and the Way Forward
Room	Enchantment A-B	Enchantment C-D	Enchantment E-F
Moderator	Julie Meka Carter/Jeremy Voeltz	Eric Wagner	Denise Fort
1:00	The efficacy of existing artificial fish barriers used to protect Apache trout recovery populations Julie Meka Carter	Preventing the spread of New Zealand mud snails: lessons from a Utah hatchery Randy Oplinger	Environmental flows: ecological principles, applications and lessons from New Mexico Maceo Martinet
1:20	Using physical and biological conditions to evaluate stream barriers used for native trout recovery in Arizona Allen Haden	Copper based substrates as potential barriers to New Zealand mud snails Chris Myrick	The New Mexico Wildlife Conservation Act: cooperative action for native species recovery Stephanie Carmen
1:40	Utilization of novel techniques to create barriers for native Colorado River cutthroat trout (<i>Oncorhynchus clarkii pleuriticus</i>) restoration Catherine Willard	Coordinated giant salvinia (<i>Salvinia molesta</i>) control in the lower Colorado River Bob Pitman	Thoughts on the legal, political, economic, and scientific challenges of fish protection in the California Delta Cliff Dahm
2:00	The Alamitos Creek barrier project: an example of multi-agency and organization collaboration to identify and develop a project, with an innovative funding approach Arnold Atkins	Aquatic Invasions ² : parasites and pathogens Dana Winkelman	Session discussion - Part 1 Denise Fort
2:20	Apache trout fish barriers - can an effective barrier be constructed in a remote location? Jeremy Voeltz	Colorado's response to zebra and quagga mussels Elizabeth Brown	Clearing the way for restoring streamflows: developments in other western states Reed Benson
2:40	Using fish barriers in restoration: insights from studies on headwater populations of cutthroat trout Bob Gresswell	Coordinating a response to the dreissenid invasion of western North America Dave Britton	The pragmatics of allocating water for stream flows Steve Harris
3:00 - 3:20 BREAK			
3:20	Learning from the history of constructing fish barriers in Wyoming Mark Smith	Assessing the distribution, density, and potential impacts of New Zealand mud snails on resident aquatic invertebrates in the Mokelumne River, California Brad Cavallo	Ecological flows in New Mexico: it can be done Adrian Oglesby
3:40	Native fish restoration efforts in the Comanche Creek watershed, New Mexico Kirk Patten	Effects of common carp (<i>Cyprinus carpio</i>) on the trophic structure and biodiversity of Spring Creek, Logan, Utah Scott Miller	Protecting our natural systems -how we can protect New Mexico's fishes Denise Fort
4:00	Session Discussion - fish barriers	Optimizing northern crayfish (<i>Orconectes virilis</i>) control methods in Arizona streams David Rogowski	Session Discussion - Part 2 Denise Fort

Schedule of Oral Presentations • Tuesday, May 5 • Morning Session

Tuesday May 5	Fish Barriers & Piscicides (Part II): Challenges & Achievements with Tools of the Trade for Native Fish Restoration	Contributed Papers: Habitat and Water Quality	Mercury Rising: Monitoring and Management of Coldwater Streams	Contributed Papers: Genetics
Room	Enchantment A-B	Enchantment C-D	Fiesta 1-2	Fiesta 3-4
Moderator	Julie Meka Carter / Jeremy Voeltz	Michael Porter	Lee Bergstedt / John Pizzimenti	Gerard Zegers
8:40	South Fork Flathead River drainage westslope cutthroat trout conservation program Matthew Boyer	Hallowat Creek large wood project – channel morphology and bull trout habitat effectiveness monitoring Troy Brandt	Thermal issues in the here and now Lee Bergstedt	Genetic analysis of Alaskan Pacific halibut (<i>Hippoglossus stenolepis</i>) Jennifer Nielsen
9:00	Westslope cutthroat trout conservation and restoration efforts in the Madison River drainage, Montana Pat Clancey	Playing well with others: 16 years of cooperative partnerships to improve aquatic habitat for ESA-listed fish in Idaho's upper Salmon Basin Wendy Koons	New water temperature criteria to protect Colorado's fisheries Andrew Todd	Assessing the feasibility of parentage-based tagging for estimating harvest of individual hatchery steelhead stocks in Idaho Matthew Campbell
9:20	Removal of convict cichlids from Fairbanks Spring, Ash Meadows, Nevada using CFT Legumine Brian Hobbs	Creating wildlife habitat and expanding fisheries with Biohaven® Floating Treatment Wetlands Tim Mulholland	Improved methods for assessing thermal discharge responses and behavior in fishes Douglas Bradley	Evaluating genetic purity and genetic structure of interior redband trout in Idaho Christine Kozfkay
9:40	Lessons learned from treating with Fintrol (antimycin-A) in trout streams in the White Mountains of Arizona Kelly Meyer	Use of survey data to develop sediment criteria for protecting aquatic vertebrates in mountain streams Philip Kauffman	Temperature variation: a fish-eye view of the watershed Christa Woodley	The distribution of genetic variation among Chinook salmon life history types in the Columbia River Basin: a landscape genetics perspective Andrew Matala
10:00 - 10:20 BREAK		Habitat Management: Lessons Learned		
10:20	Recent recovery activities for the threatened Lahontan cutthroat trout in northern Nevada Chad Mellison	Complexities in managing the Klamath Basin Cindy Williams	Thermal Decision Support Systems: how computers and models can help John Pizzimenti	Genetic characterization of the Virgin River chub, <i>Gila seminuda</i> Gerard Zegers
10:40	LeBarge Creek restoration: planning, adapting, and lessons learned Hilda Sexauer	Chiloquin Dam removal: habitat restoration in the upper Klamath Basin, Oregon Chuck Korson	Thermal issues in the California Bay-Delta Cliff Dahm	Overlooked utility of mtDNA sequence data in native trout? Insights from the native Mexican fauna Richard Mayden
11:00	Challenges to the implementation of the Cherry Creek, Montana, native fish introduction project Pat Clancey	Trinity River restoration: lessons learned Nina Hemphill	Impact of reservoir management: water quality and fish bioenergetics modeling Scott Wells	Genetic structure of the undescribed Mexican native trout: an assessment with microsatellite loci Casey Dillman
11:20	Session Discussion - piscicides	Fish assemblages of the middle Rio Grande, New Mexico and their relevance to restoration ecology Michael Hatch	Two examples of challenging problems and unexpected solutions Peter Goodwin	New discoveries and insights into diversity and conservation status of native trout of Mexico Richard Mayden

Schedule of Oral Presentations • Tuesday, May 5 • Afternoon Session

Tuesday May 5	Contributed Papers: Freshwater Fisheries Management	Habitat Management: Lessons Learned	Are Current Native Trout Strategies Adequate in a Warming Climate?
Room	Enchantment A-B	Enchantment C-D	Fiesta 1, 2, 3, 4
Moderator	Shivonne Nesbit	Cindy Williams	Bob Gresswell
1:00	Use of video to quantify adult lamprey passage at night at Bonneville and the Dalles dams on the Columbia River Christopher Caudill	Overcoming habitat limitations in managing for the recovery of endangered Rio Grande silvery minnow (<i>Hybognathus amarus</i>) population in the Middle Rio Grande, New Mexico Michael Marcus	Exploring the range of potential climate change impacts on western rivers: case studies from the upper Yellowstone Stephen Gray
1:20	Estimating Columbia Basin lamprey escapement at mainstem dams Jeffrey Fryer	Large wood creates dynamic fish habitats under variable flow regimes Brooke Wyman	Regional climate simulations for North America: changes in the mean state and its variability under a doubling of CO ₂ Steve Hostettler
1:40	Kinetic hydropower: baseline monitoring for fish distribution and behavior at the proposed site of the Eagle Turbine Project, Yukon River, Alaska James Dawson	Habitat restoration in the middle Rio Grande, NM, for the endangered Rio Grande silvery minnow (<i>Hybognathus amarus</i>) Grace Haggerty	Downscaling climate and wildfire effects to assess thermal gains in stream networks: a case history from a central Idaho watershed Dan Isaak
2:00	The relationship between spawning salmon abundance and the fitness of stream-dwelling fishes, Kenai Peninsula, Alaska Daniel Rinella	Keys to better management through monitoring for Rio Grande silvery minnow (<i>Hybognathus amarus</i>) presence on habitat restoration floodplain sites during the 2008 runoff Douglas Tave	Predicting future threats to the long-term survival of Gila trout using a high-resolution simulation of climate change Thomas Kennedy
2:20	The use of 8.5 and 12.5 mm PIT tags on both a juvenile and adult salmon tagging study in the Columbia Basin Jeffrey Fryer	Habitats that enhance abundance and variability of macroinvertebrates, aufwuchs, and chlorophyll a in the middle Rio Grande Richard Valdez	Using climate models to predict hydrologic and thermal effects on future habitat distributions of inland trout in headwater streams across the western U.S. Seth Wenger
2:40	Trammel nets for the assessment of burbot stocks in lentic systems: do they provide a reasonable tool? Matthew Abrahamse	Hydrology, geomorphology, and life history: management concepts for endangered fish Michael Porter	Will California golden trout and their habitat be resilient to climate change? Kathleen Matthews
3:00 - 3:20 BREAK			
3:20	Fish Impingement Mortality and Entrainment Characterization Studies (IMECS) at two plants in the Garrison Reach of the upper Missouri River David Pillard	A comparison of the performance and compatibility of protocols used by seven monitoring groups to measure stream habitat in the Pacific Northwest Brett Roper	A temperature related die-off of southern steelhead trout (<i>Oncorhynchus mykiss</i>) near the southern extent of their range: Malibu Creek, Los Angeles County, California Sabrina Drill
3:40	Using Geographic Information Systems to delineate native fish and sport fish management areas in the Verde River watershed, Arizona Anne Kretschmann	Restoring habitat for the endangered Moapa dace, <i>Moapa coriacea</i> , in the Warm Springs system, Muddy River, Nevada Cailin Doyle	Weighing the added risk of climate change to population persistence in native trout: management implications Jack Williams
4:00	Using experts and stakeholders to improve the strategic planning process Kelly Meyer	Assessing stream habitat trends - lessons from repeat sampling in 700 Columbia River basin streams Robert Al-Chokhachy	Integrating Pacific Northwest aquatic ecosystem climate change preparation efforts into regional planning: coordination in a multi-sector world Cindy Deacon Williams
4:20	Local, watershed, and landscape inputs into the link between headwater fish population dynamics and variability in downstream fish abundance Karl Polivka	Session Discussion Michael Porter	Wrap up talk and discussion: are current management strategies adequate in a warming climate? Jeff Kershner

Schedule of Oral Presentations • Wednesday, May 6 • Morning Session

Wednesday May 6	Fish Barriers & Piscicides (Part III): Challenges & Achievements with Tools of the Trade for Native Fish Restoration	Contributed Papers: Student Session	Ecology, Conservation, and Management of Fishes in the Pecos River Drainage	Contributed Papers: Fish Ecology
Room	Enchantment A-B	Enchantment C-D	Enchantment E-F	Fiesta 3-4
Moderator	Julie Meka Carter/Jeremy Voeltz	Olin Feuerbacher	Megan Osborne	Michael Anderson
8:40	Toxicity of rotenone to larval amphibians Hilary Billman		Biogeography and long-term conservation of fishes and aquatic habitats of the Pecos River drainage Christopher Hoagstrom	In search of the Holy Grayling Bill Mavros
9:00	Benthic macroinvertebrate bioassessment of upper Comanche Creek (Costilla Creek watershed), Valle Vidal, Carson National Forest, New Mexico before and after treatment with rotenone Jerry Jacobi	Larval collection and observed movements of telemetered bigmouth sleeper <i>Gobiomorus dormitor</i> in Puerto Rico Christine Adelsberger	Fish assemblages of sinkholes in the lower Pecos River Basin of New Mexico Astrid Kodric-Brown	Contribution to steelhead smolt production from differing life history strategies: downstream movement as parr versus staying until time of smolting Patrick Connolly
9:20	Comparative effects of rotenone and antimycin on benthic macroinvertebrate diversity in two streams in Great Basin National Park Bryan Hamilton	Identification and characterization of inconnu spawning habitat in the Sulukna River, Alaska Jonathon Gerken	Ecologically driven life history differences between two <i>Gambusia</i> species Daniella Swenton-Olson	Spatiotemporal variability in movement as a function of biotic and abiotic factors, and land-use practices of brown trout in the Valles Caldera National Preserve, New Mexico Michael Anderson
9:40	Evaluation of brown trout removal on the Fort Apache Indian Reservation Jennifer Johnson	Crayfish, competition, and coexistence: exploring interactions between native and invasive crayfish in Oregon's southern Willamette Valley Brett Hanshaw	Ecological explanations for body shape variation in the Pecos pupfish (<i>Cyprinodon pecosensis</i>) and other pupfishes Michael Collyer	Size matters: phenotypic and environmental effects on adult Pacific lamprey migration in the Columbia River Matthew Keefer
10:00 - 10:20 BREAK				Contributed Papers: Native Fishes and Fish Conservation
10:20	Effects of nonnative fish removal in a highly variable riverine system Yvette Paroz	Riverscape patterns and environmental drivers of functional diversity and composition of fish communities in the Lower Colorado River Basin Thomas Pool	Identification of ecologically relevant fish hosts for Texas hornshell, <i>Popenaias popeii</i> , (Bivalvia: Unionidae) Brian Lang	Can cattle trampling of redds lead to population declines in stream resident cutthroat trout? Douglas Peterson
10:40	Recovery of westslope cutthroat trout populations following removal of nonnative brook trout Brad Shepard	Modeling habitat availability in a Great Plains river system to assess the effects of energy development-related flow augmentation Anna Senecal	Estimation of detection probabilities of small-bodied fishes in the Pecos River, New Mexico Thomas Archdeacon	Climate change and the freshwater life-history of Pacific Salmon Gordon Reeves
11:00	Session Discussion - effects of piscicides; mechanical removal	Effects of temperature and simulated loading stress on fishes of the Sacramento- San Joaquin Delta: oxygen consumption and total ammonia production rates Zak Sutphin	Status update of toxic golden alga in New Mexico Shawn Denney	Hybridization reduces fitness of cutthroat trout in the wild Clint Muhlfeld

11:20	Session Wrap-up	Variability of coastal cutthroat trout abundance and LiDAR-derived channel morphometry in headwater catchments Jason Walte	Status and conservation of native catostomids in the lower Pecos River, New Mexico Nikolas Zymonas	Modeling local and watershed drivers of native and non-native fishes in the Lower Colorado River Basin Joanna Whittier
-------	-----------------	--	--	--

Schedule of Oral Presentations • Wednesday, May 6 • Afternoon Session

Wednesday May 6	Contributed Papers: Fish Culture and Fish Health	Contributed Papers: Student Session	Ecology, Conservation, and Management of Fishes in the Pecos River Drainage	Contributed Papers: Native Fishes and Fish Conservation
Room	Enchantment A-B	Enchantment C-D	Enchantment E-F	Fiesta 3-4
Moderator	Catherine Sykes	Justin Mapula	Stephen Davenport	Nikolas Zymonas
1:40	An overview of captive breeding methods for five imperiled desert chub and topminnow species Scott Bonar	Getting the story straight in the Crooked River, Oregon: evaluating movement patterns of redband trout and mountain whitefish Shivonne Nesbit	The restoration of the Pecos River at Bitter Lake NWR Paul Tashjian	Proposed coal mining and coal-bed methane development threaten aquatic resources in the Transboundary Flathead Ecosystem Amber Steed
2:00	Testing the thermal tolerance of various life stages of fish using the critical thermal method Matthew Recsetar	Relative vulnerability of threatened Snake River steelhead smolts to fish-eating birds nesting on the Columbia River Nathan Hostetter	Response of Pecos River fish community to surface flow intermittence Stephen Davenport	Using stand-alone videography and water quality sensing to assess relationships between environmental conditions and reproductive behavior in Devils Hole pupfish Ambre Chaudoin
2:20	Rainbow trout egg disinfection with higher doses of hydrogen peroxide and iodine for shorter durations Eric Wagner	Heritability of myxospore count and genetic correlations in whirling disease resistant and susceptible strains of rainbow trout Eric Fetherman	Patterns of genetic diversity in a community of cyprinid fish in the Pecos river, New Mexico Megan Osborn	Ecomorphological relations between <i>Cottus</i> species and their environment in northeastern Utah Nathan Holmes
2:40	Failure of U.S. Environmental Protection Agency recalculation procedures to produce protective zinc standards for naturally reproducing brown trout populations John Woodling	Joint estimation of admixture proportions and effective population size in a hybrid trout population in Silver King Creek, California Amanda Finger	Session Discussion Christopher Hoagstrom	Status of Warner suckers in the Warner Basin, Oregon Paul Scheerer
3:00 - 3:20 BREAK			Contributed Papers: Rio Grande Silvery Minnow	
Moderator			Colleen Caldwell	
3:20	Application of prophylactic disease treatments in laboratory rearing of hybrid Devils Hole pupfish Olin Feuerbache	Differentiating hatchery from wild origin rainbow trout in a Wyoming fishery using stable isotope analysis Scott Carleton	Comparison of two methods for implanting Passive Integrated Transponders in Rio Grande silvery minnow Thomas Archdeacon	Opportunities for establishing Native Fish Conservation Areas in the Upper Green River Daniel Dauwalter
3:40	Heavy metal contamination in fishes from southern Arizona lakes: Radiogenic isotopic analyses of Patagonia and Peña Blanca Lakes, Arizona Lisa McDonough	Optimizing survival and growth of first-feeding Colorado River cutthroat trout – diet, temperature, and density implications Mandi Brandt	Bendway weirs: would they aid the recovery of the endangered Rio Grande silvery minnow? Kristoph-Dietrich Kinzli	Features in the early development of gray redbhorse <i>Moxostoma congestum</i> Nikolas Zymonas

4:00	Acute toxicity of potassium chloride to Colorado pikeminnow, razorback sucker, and bonytail Catherine Sykes		Physiological effects of confinement and transport-induced stress in Rio Grande silvery minnow: Insight into practical management tools Colleen Caldwell	Development of an interactive internet platform for the Central Valley Recovery Plan's Evolutionarily Significant Units (ESU) of Sacramento River winter-run and spring run Chinook salmon and the Distinct Population Segments (DPS) of the Central Valley steelhead Gretchen Umlauf
------	---	--	--	---