

THE 52nd ANNUAL MEETING OF THE MONTANA CHAPTER OF THE AMERICAN FISHERIES SOCIETY

Agenda

Wednesday, January 30, 2019

Plenary Session

Moderator: Ladd Knotek

- 8:00** **Welcome & Introduction of Plenary Session:** Steve Dalbey (Montana Fish, Wildlife & Parks)
- 8:15** Kathleen Williams
- 8:45** Dr. Steven Running
- 9:15** **When All Else Fails: Politics and Public Support for Conservation and Recovery of Pallid Sturgeon, Pat Byorth** (Montana Trout Unlimited)
- 9:45** **Break**

Contributed Papers — Co-Authors are listed in abstract section of the program

** Indicates Student Paper

Moderator: Brad Schmitz

- 10:00** **Using Recreational Catch and Release Snagging at Intake as a Paddlefish Management Tool,** Caleb Bollman (Montana Fish, Wildlife & Parks)
- 10:40** **Recruitment of paddlefish: hypotheses, evidence and implications**
Dr. Dennis Scarnecchia (University of Idaho)
- 10:40** **An Evolving Fishery: Balancing Resource Management While Maintaining Traditional Angling Experiences During the Upper Missouri River Paddlefish Season** Cody Nagel (Montana Fish, Wildlife & Parks)
- 11:00** **Survival, Abundance, and Exploitation of Paddlefish in the Missouri River above Ft. Peck Reservoir** Haley Glassic (Montana Cooperative Fishery Research Unit)
- 11:20** **Movements of Native Fish Species at Intake Diversion Dam on the Yellowstone River, Montana.** Matt Rugg (Montana Fish, Wildlife & Parks)
- 12:00** **Lunch**

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Moderator: Patrick Uthe

- 1:00** **Prioritizing Montana Lakes for Prevention of Illegal Fish Introductions**
Samuel Bourret (Montana Fish, Wildlife & Parks)
- 1:20** **Experimental test of genetic rescue in isolated westslope cutthroat trout populations,** Donovan Bell
- 1:40** **Evaluation of Factors Limiting Rainbow Trout Growth on the Kootenai River Downstream of Libby Dam** Jim Dunnigan (Montana Fish, Wildlife and Parks)
- 2:00** **Selecting for a Legacy: Suppressing Hybrid and Rainbow Trout as a Conservation Strategy for Migratory Westslope Cutthroat in the Upper Flathead River Drainage** Amber Steed (Montana Fish, Wildlife and Parks)
- 2:20** **The differential controls of stream temperature and non-native brook trout on Yellowstone cutthroat trout in the Teton River, Idaho and Wyoming**
Robert Al-Chokhachy (U.S. Geological Survey)
- 2:40** **Patterns in the distribution, size, and ecology of non-native smallmouth bass in the Yellowstone River** Nicholas Voss (Montana Cooperative Fishery Research Unit, Montana State University)
- 3:00** **Break**

SYMPOSIA: Beavers and Fish An update on the current science, mimicry practices, and administration. Moderator: Peter Brown

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- 3:20** **General review of Beaver literature** Andrew Lahr (University of Montana)
- 3:40** **Best practices for construction of Beaver Dam Analogs (BDAs) and other beaver mimicry structures,** Amy Chadwick (Great West Engineering)
- 4:00** **BDA Projects on Federal Lands: Cherry Creek and North Derby Gulch Case Studies** Clint Sestrich (Custer Gallatin National Forest)

SYMPOSIA: Beavers and Fish An update on the current science, mimicry practices, and administration. Moderator: Peter Brown

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- 4:20** **Using monitoring and modeling to explore how beaver-mimicry stream restoration affects dynamic seasonal water storage** Andrew L. Bobst (Montana Bureau of Mines and Geology)
- 4:40** **A parafluvial response to Beaver Dam Mimicry in the Centennial Valley, MT** Briana Whitehead (Montana State University)
- 5:00** **Beaver Restoration Assessment Tool in Montana** Claudine Tobalske (Montana Natural Heritage Program)
- 5:20** **Adjourn**
- 6:00** **Evening Social at the Pub Station**
- ⇒ **Student Mentoring Session & Fish Trivia**
 - ⇒ **Plenary Speaker Appreciation Social**

Thursday January 31, 2019

SYMPOSIA: A Teacher, Reporter, Politician, Biologist, and a Fish Walk into a Bar...How Do They Effectively Connect for the Future of Conservation?

Moderator: Amber Steed

- 8:00** **Announcements**
- 8:05** **Symposium Introduction** Amber Steed, (Montana Fish, Wildlife and Parks)
- 8:15** **If You Teach a Kid to Fish...** Kevin Croff (Bitterroot Elementary School)
- 8:35** **Communicating with communicators,** Brett French (Billings Gazette)
- 8:55** **Title to Be Announced,** Dan Vermillion
- 9:15** **Conservation through Outreach and Education: from Adopt-a-Trout to FishMT,** David Schmetterling (Montana Fish, Wildlife and Parks)
- 9:35** **Break**

Contributed Papers:

Moderator: Travis Horton

- 10:00** **Integrating environmental DNA surveillance into the USGS streamgage network,** Adam Sepulved (U.S. Geological Survey)
- 10:20** **Variable demographic rates of sympatric fish species suggest sources, sinks, and ecological traps in a connected watershed.** (Michael Vance Montana Cooperative Fishery Research Unit)
- 10:40** **Fisheries and Aquatic Resources of the Black Butte Copper Project Area in Meagher County, MT: Trends and Observations from 5 years of Baseline Surveys,** David M. Stagliano (Montana Biological Survey)
- 11:00** **A Fishy Tale: Selenium in a transboundary waterbody,** Trevor Selch (Montana Fish, Wildlife and Parks)
- 11:30** **Business Lunch (Affiliate Membership Discussion)**
Tracey Wendt—Western Division Update

SYMPOSIA: ~28 Years Later: Progress and prospects in the recovery of Pallid Sturgeon in the Upper Missouri River Basin since listing (1990-2019)

Moderator: Bob Snyder

- 1:00 Overview of past actions and contemporary status of Pallid Sturgeon recovery** Zach Shattuck (Montana Fish, Wildlife and Parks)
- 1:20 The history of Pallid Sturgeon propagation: why the species is still here today,** Rob Holm (US Fish and Wildlife Service) and Bob Snyder (Upper Basin Pallid Sturgeon Workgroup)
- 1:40 Reproductive Ecology of Hatchery-origin Pallid Sturgeon: A New Hope,** Tanner Cox (Montana Cooperative Fishery Research Unit, Montana State University)
- 2:00 Pallid Sturgeon movement and ecology: an upstream of Fort Peck perspective,** Luke Holmquist (Montana Fish, Wildlife and Parks)
- 2:30 Break**
- 3:00 Spawning migrations of Pallid Sturgeon in the Missouri River downstream of Fort Peck Dam,** Tyler Haddix (Montana Fish, Wildlife and Parks)
- 3:20 Pallid Sturgeon movement and ecology: a Yellowstone River perspective,** Mike Backes (Montana Fish, Wildlife and Parks)
- 3:40 High Resolution Hydro-Acoustic Mapping of the Missouri River Provides a Glimpse of How River Stage Influences 3D Current Velocities and Simulated Larval Drift Paths,** Brian Marotz (Montana Fish, Wildlife and Parks)
- 4:00 Jeremy Monroe—Freshwater Illustrated**
- 5:00 End Session**
- 5:30 Committee Caucuses, Montana Association of Fish and Wildlife Biologists**
- 6:00 Poster Session**
- 6:30 Social**
- 7:00 Awards Banquet and Raffle**

Friday February 1, 2019

Contributed Papers

Moderator: Leslie Nyce

- 8:00** **Announcements, Dalbey**
- 8:10** **How can I change the world? - perspectives from a 40-year fish biologist career,** Brad Shepherd (B. B. Shepard and Associates)
- 8:50** **Risk Communication for the Use of Piscicides,** Don Skaar (Montana Fish, Wildlife and Parks)
- 9:10** **Evaluating the Efficiency of Denil Fish Ladders for Upstream Passage of Arctic Grayling and Other Species on the Big Hole River** Ben Triano (Montana State University)
- 9:30** **Evaluating Suppression Options for an Introduced Cyprinid in a Montane Lake Using a Population Model,** Troy Smith (University of Montana)
- 9:50** **Soda Butte Creek: A stream restoration success story,** Brian Ertel (National Park Service)
- 10:10** **Break**

Contributed Papers

Moderator: Mike Ruggles

- 10: 25** **Investigation of small Bull Trout populations in a naturally intermittent tributary to the lower Clark Fork River, Montana,** Jason R. Blakney (Montana Fish, Wildlife and Parks)
- 10:45** **Diets of Nonnative Longnose Sucker in Yellowstone Lake, Yellowstone National Park,** Kaitlyn Furey (USGS, Montana Cooperative Research Unit)
- 11:05** **Rainbow trout introgression alters the seasonal growth patterns of cutthroat trout in three wild populations** Jeffrey Strait (University of Montana)
- 11:25** **The Validation of the Distell Fatmeter for use in juvenile Pallid Sturgeon (Scaphirhynchus albus),** Matea A. Djokic (Montana State University)
- 11:45** **Walleye Are Not Native in Montana; But What About That Map?** Zach Shattuck (Montana Fish, Wildlife and Parks)