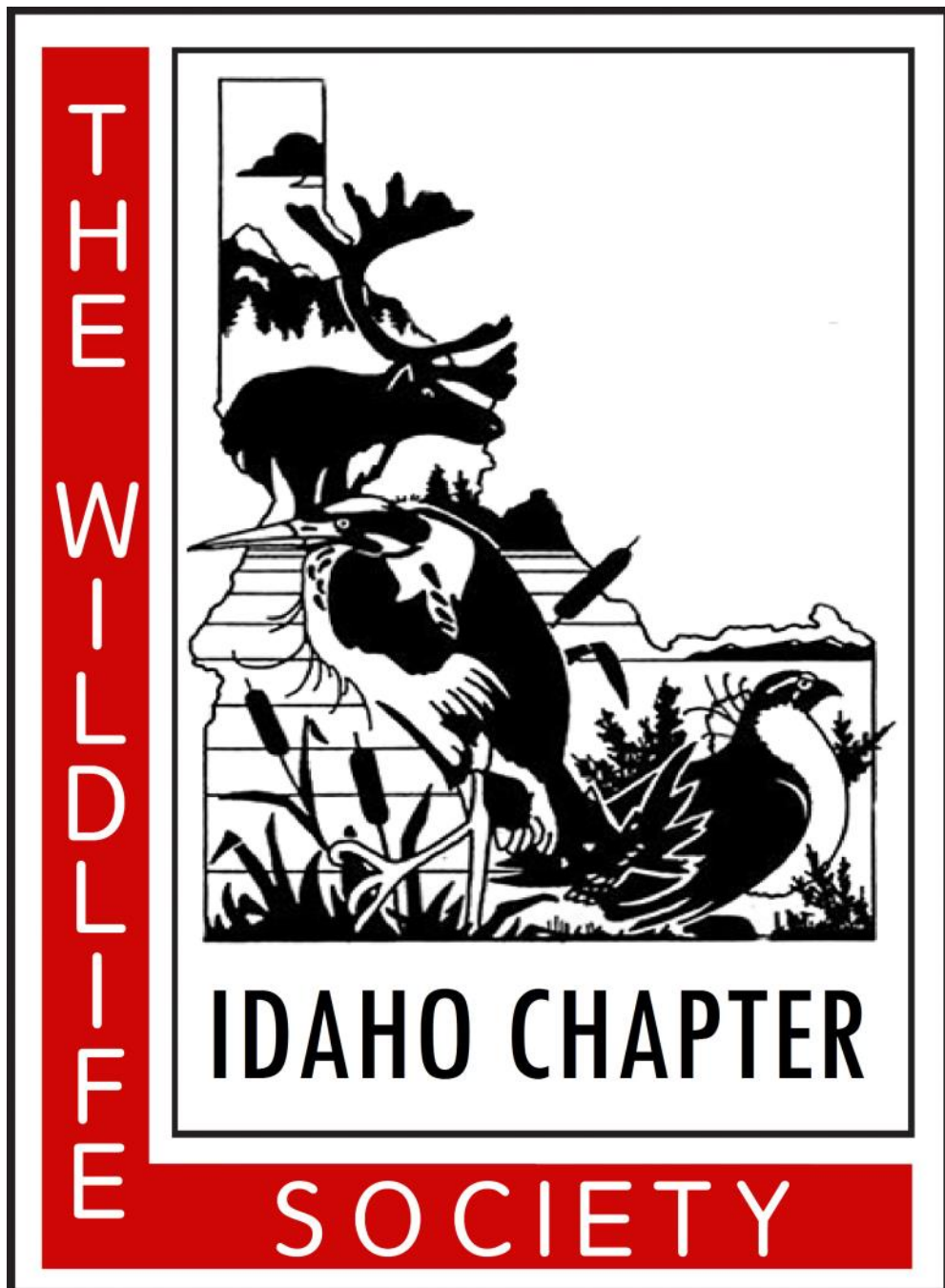


2018 IDAHO CHAPTER OF THE WILDLIFE SOCIETY
“THE FUTURE OF THE WILDLIFE PROFESSION”

5-7 March 2018
Shoshone-Bannock Hotel
Fort Hall, Idaho



PROGRAM



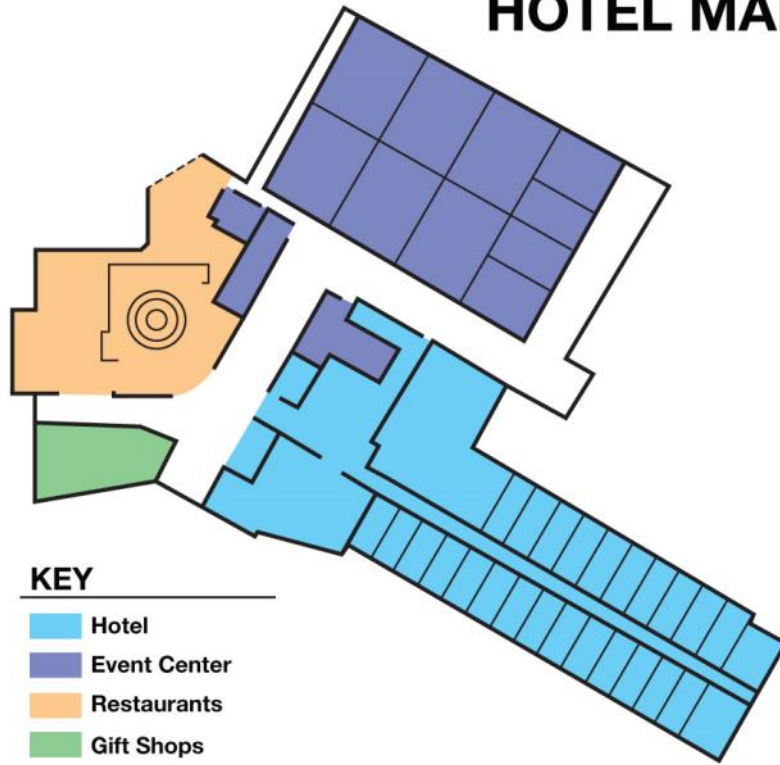
2018 Associated Meetings

- ◆ Idaho Bat Working Group
- ◆ Idaho Bird Conservation Partnership
- ◆ Idaho Partners in Amphibian and Reptile Conservation



Shoshone-Bannock Hotel Floor Plan

HOTEL MAP



Chiefs Event Center





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Meeting Introduction and Host City

Meeting Introduction

The Idaho Chapter of The Wildlife Society annual meeting is 5-7 March 2018 in Fort Hall, Idaho. This year's conference offers a diverse scientific program with a plenary session, special session, symposium, contributed oral and poster presentations, social, banquet, student activities and the annual business meetings.

Host City — Fort Hall, Idaho

The Shoshone-Bannock Tribes welcome the Idaho Chapter of the Wildlife Society to the Fort Hall Reservation.

The Fort Hall Reservation was established when the Shoshones and Bannocks entered into the peace treaties of 1863 and 1868 known as the Fort Bridger Treaty. The Reservation is located north and west of the city of Pocatello, and bordered to the north and northwest by the Snake and Blackfoot Rivers. The Fort Hall Reservation today encompasses 544,000 acres and home to approximately 6,000 Tribal members.

The Shoshone-Bannock Tribes ancestral lands of both tribes occupied vast regions of land encompassing present-day Idaho, Oregon, Nevada, Utah, Wyoming, Montana, and into Canada. Historically, the Tribes generally subsisted as hunters and gatherers. They hunted wild game, fished the region's abundant and bountiful streams and rivers for salmon and other fish, and collected native plants and roots such as the camas bulb. Buffalo served as the most significant source of food and raw material for the Tribes.

Today, the Shoshone-Bannock Tribes are a federally recognized sovereign nation with the power to govern themselves and their land, and determine their own membership. The Tribes continue to exercise inherent and treaty reserved rights, including the right to hunt on all unoccupied lands of the United States.

As sovereign nation the Tribes have their own government, health and education services, police forces, judicial systems, economic development projects, cultural and social functions and other regulatory activities. The Shoshone-Bannock Tribes are organized under the 1934 Indian Reorganization Act, and they operate under a constitution approved on April 30, 1936. The Tribes are governed by the Fort Hall Business Council, made up of 7 Tribal members, which maintain authority over all normal business procedures, including the development of lands and resources and all matters of self-government.

The Fort Hall Reservation is home to numerous agricultural operations and a variety of retail trades including gaming casinos and the Shoshone-Bannock Tribes Hotel and Event Center. Every year in August the Tribes hold their Shoshone-Bannock Indian Festival. The Festival includes a powow, Indian relay races, rodeo, food and craft vendors, and other events. The Festival will take place August 9th-12th 2018.

The Shoshone-Bannock Tribes would like to welcome the Idaho Chapter of the Wildlife Society 2018 Conference to Fort Hall and the Shoshone-Bannock Tribes Hotel and Event Center. To learn more visit www.sbtribes.com.



A few things to do while here:

Shoshone-Bannock Tribal Museum - Learn a little more about the rich history of the Shoshone-Bannock tribes at this museum closely located near the Fort Hall Casino.

Cedar Spa - What better way to relax after a long day of learning than heading off to the spa? The Cedar Spa is located inside the Shoshone-Bannock Hotel and open for business!

Fort Hall Casino - Try to tame that 'WILD' side of you on over 900 gaming machines located inside the Fort Hall Casino! If you are more of the high roller type, then be sure to take a turn inside their High Limit Area!

Idaho Museum of Natural History - Fulfill that inner curiosity and check out the *Incredible Horse Exhibit* that is on display now in Pocatello. This display showcases the world of horses with an interactive exhibit of prehistoric horses!

Sterling and Portneuf Wildlife Management Areas - Be sure to take some time to check out two nearby WMA's that offer hunting, fishing, hiking and wildlife photography opportunities!

Tex Creek, Market Lake, Mud Lake, Cartier Slough, Sand Creek WMAs - To the north (outside of Idaho Falls) are several other Wildlife Management Areas/Units that provide even more opportunities for exploration, hunting and fishing.

Pocatello - Still need something to do? Only a short 20 min drive away you can find a large list of amenities such as restaurants, pubs, shopping and other activities.

Conference Venue

All conference activities will take place at the Shoshone-Bannock Hotel (777 Bannock Trail Rd, Fort Hall, ID 83203; Phone— (208) 238-4800; www.shobanhotel.com).



Registration and Logistics

Registration fees include admission to all oral sessions, poster session, coffee breaks, social activities, a copy of the program and a complimentary meeting gift.

Registration Fees:

\$220	Full registration (includes social and meeting gift)
\$110	Retiree & new professional registration (includes social and meeting gift (while supplies last))
Subsidized	Idaho Chapter student member registration (includes social, banquet and meeting gift (while supplies last))
\$25	Student registration (non-Idaho Chapter member) (includes social, banquet and meeting gift (while supplies last))
\$125	One day registration
\$25	Regular banquet ticket
\$250	Late Full Registration
\$125	Late Retiree & New Professional Registration
\$140	Late 1-Day Registration

The registration desk will be open at the following times:

Monday	5 March	4:00-6:15pm
Tuesday	6 March	7:00-9:00am, 11:00am - 2:00pm, 5:00-7:00pm
Wednesday	7 March	7:00am-12:00pm, 5:00-6:00pm

Messages and volunteer opportunities

A message board will be available near the registration desk.

Conference Contact

Ross Winton - (ICTWS) ross.winton@idfg.idaho.gov; 208-324-4359

Executive Boards & Conference Organizing Committee

Anna Owsiak	President
Ross Winton	President-Elect
Andrew Mackey	Vice-President
Bruce Schoeberl	Secretary
Becky Abel	Treasurer
Aren Eddingsaas	Past-President
Bryan Stevens	Volunteer Coordinator



Meeting Sponsorship

2018 Conference Sponsors

We wish to thank all of the organizations and businesses for sponsoring the 2018 Conference. Some of our sponsors did not make it into this program in time for print and we would like to extend our gratitude for helping to make this conference possible!

Silver Sponsors (\$500-\$1,199):



An IDACORP Company



University of Idaho





Supporting Sponsors (\$100-\$499):



A Land Trust Partnership



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Auction and Raffle Item Donors

We wish to thank the following individuals, businesses and organizations that supported the 2018 Conference with auction and raffle item donations:

- Beck Family Farms
- Columbia River Knife and Tool
- The Bone Smith
- Paul Moroz
- Home Helpers of East Idaho
- Zoo Boise
- Hampton Inn - Downtown Boise
- Spring Hill Suites - Boise Parkcenter
- Bogus Basin
- Java
- Shoshone-Bannock Tribal Council
- Pocatello Field Archers
- Aquarium of Boise
- Ducks Unlimited
- Ken and Margie Miracle
- NRS
- Backcountry Lark

- Sportsman's Warehouse
- Backcountry Hunters & Anglers
- Banana Ink
- University of Idaho
- Snake River Adventures
- Sam Mattise
- First Lite
- Becky Abel
- CCI/Speer, Vista Outdoor
- Bernie's Guns and Ammo
- Idaho State University
- Cal Ranch
- Votrex Optics
- Aire
- North 40 Outfitters
- Woodland Enterprises

Some donor names were not available by the time this program went to print. We extend a sincere thank you to those of you whose names are not listed above, your generous support of this conference and of our organizations is sincerely appreciated!



2018 Conference Contributors

We extend a special thank-you to the many session chairs, the conference volunteers who helped with AV and other logistics, and the silent auction and raffle volunteers who ensured fundraising success. Your efforts have helped ensure the success of this year's meeting and are greatly appreciated.

We would like to thank the following organizing committee members for making this conference possible. If you are interested in being part of the any of these committees or would like to help in any capacity please visit with any ICTWS Executive Committee Member.

Audit Committee

(Chuck Blair)

Awards Committee

(Paul Makela, Jim White, Ryan Long, Jen Forbey)

Conservation Affairs Committee

(Robert Magill, Bill Dell'Isola)

Education and Outreach Committee

(Alana Jensen)

Elections/Nominations Committee

(Curtis Hendricks, J.J. Teare, Shane Roberts)

Fundraising Committee

(Jason Beck, Tara Ball)

Grant Review Committee

(Toni Holthuijzen, Sandy Amdor, Jericho Whiting)

Membership Committee

(Katie Powell, Bruce Schoeberl, Lisa Nutt, Toni Holthuijzen)

Paper/poster judging coordinators

(Kevin Warner, Jay Carlisle) and all of the paper/poster judges

Scholarships Committee

(Jon Dudley, Sylvia Copeland, Tricia Hebdon)

Sponsorship Committee

(Pam Bond, Brad Lowe)

Student Activities

(Martha Wackenhut, Tifani Watson, Daniel Whittle, Jonathon Dudko)

Student Affairs Committee

(Martha Wackenhut, Janet Rachlow, Jericho Whiting, Drew Retherford)

Student Chapters of the Wildlife Society Leadership Contacts

University of Idaho:

Tifani Watson - wats9864@vandals.uidaho.edu

Brigham Young University Idaho:

Daniel Whittle - whi13064@byui.edu

Idaho State University:

Jonathon Dudko (Ecology and Conservation Biology Club) -
dudkjona@isu.edu



Program At a Glance

Monday 5 March

Time	Workshops
07:00-08:00	Continental Breakfast for Hotel Guests (Room– Chief Taghee)
10:00-11:30	Idaho Bird Conservation Partnership Meeting (Room– Chief Pocatello)
08:00-12:00	Idaho Bat Working Group (Room– Chief Arimo)
13:30-16:00	Idaho Bird Conservation Partnership Meeting (Room– Chief Pocatello)
14:00-17:00	Idaho Partners in Amphibian and Reptile Conservation Meeting (Room– Chief Arimo)
18:15-21:30	Welcome Social (Room– Chief Taghee)
Registration Desk Open: 16:00-18:15	

Tuesday 6 March

Registration Desk Open: 07:00-09:00; 11:00-14:00; 17:00-19:00

Time	Room—Chief Taghee	*Vendor Displays all day in Chief Taghee
07:00-08:00	Continental Breakfast (Room– Chief Taghee)	
08:00-08:15	Welcome - ICTWS President: Anna Owsiak	
08:15-08:30	Invocation - Shoshone-Bannock Public Relations Director: Randy'L Teton	
08:30-08:45	Presentation - Tribal Council Member: Dan Stone	
08:45-10:50	Plenary Session - <i>“The Future of the Wildlife Profession”</i> (Room— Chief Taghee)	
10:50-12:00	Panel Discussion	
12:00-13:15	Student Resume Review (Room– Chief Taghee) - At reserved tables	
13:15-14:00	TWS Student Chapter Meetings (Room– Chief Taghee) - All Students are Invited to Attend	
12:00-14:00	Lunch on your own. (Poster Set Up) (Executive and Committee Lunches)	
	Room— Chief Pocatello	Room— Chief Racehorse A
14:00-15:20	Citizen Science and Crowd Sourced Data	Wildlife Management
15:20-15:40	BREAK (Poster Set Up)	
15:40-17:20	Citizen Science and Crowd Sourced Data	Human Dimensions
17:30-18:30	Poster Session (Room— Chief Taghee)	
18:30-23:00	Student/ Professional Mixer (Room— Chief Taghee)	



Program At a Glance cont.

Wednesday 7 March

Registration Desk Open: 07:00-12:00; 17:00-18:00

Time

07:00-08:00	Student Mentorship—Breakfast with a Biologist (Room— Chief Taghee) At reserved tables	
07:00-08:00	Continental Breakfast (Room— Chief Taghee)	
	Room— Chief Pocatello	Room— Chief Racehorse A
08:00-10:00	Habitat Use and Ecology/ Landscape Ecology	Ignite!
10:00-10:20	BREAK	
10:20-12:00	Habitat Use and Ecology/ Landscape Ecology	Wildlife Ecology
12:00-14:00	Idaho Chapter of The Wildlife Society Business Lunch (Room— Chief Taghee)	
14:00-15:20	Genetics/ Climate/ Disease/ Contaminants	Wildlife Ecology
15:20-15:40	BREAK	
15:40-17:00	Methodologies	OPEN
18:30-23:00	Social Hour, Banquet, Awards, Silent Auction and Raffle (Room— Chief Taghee)	

ICTWS Special Awards—Presented at the Banquet Wednesday Evening

Charles E. Harris Professional Wildlifer Award

This award honors professionals in wildlife management. It is given to demonstrate outstanding contributions to Idaho's wildlife resources as appreciated by one's peers. The award is meant to recognize outstanding professional contribution and promote public understanding of significant wildlife management accomplishments in Idaho.

Special Recognition Award

This award honors any person or group who has made an outstanding contribution within the state of Idaho to wildlife conservation, management, science, conservation education, the wildlife profession or to an area of endeavor species, community, ecosystem or region. Any person or group who has made such a contribution in the last 3 years is eligible for this award.

Randall B. Smith Emerging Leader Award

This Award is intended to honor a professional with five (5) or less years of experience in wildlife conservation, management, or research in Idaho who demonstrates exceptional initiative, leadership skills, and commitment to the field. The Award is in memory of Randy Smith, who trained and mentored many young wildlife professionals throughout his career.



Attendee and Presenter Information

Locations

All conference activities and associated meetings will be held in the following Rooms: Chief Taghee, Chief Pocatello, Chief Arimo & Chief Racehorse A of the Shoshone-Bannock Hotel. See pages 11-12, “Program at a Glance” for room location of specific events.

Oral Presenters

Please take note of your presentation date and time. Please note that all **general session** talks should be limited to 20 minutes total (including 5 minutes for questions), whereas **IGNITE!** session talks are limited to a 5 minute presentation with several minutes afterwards for questions. Respect other speakers and your audience by staying within your scheduled time. It is extremely important that we maintain this schedule, so that attendees can move amongst sessions. Take the time to practice so your delivery fits into the scheduled interval. Check with your session chair well in advance of the start of your session to make sure that you know where the tools are that you need for your talk (e.g., remote control, laser pointer) and how to use them. This is also the time to check and see if your PowerPoint presentation (ideally saved in Microsoft Office PowerPoint Show [.pps] format) runs properly on the projector and projection computer. Presentations should be uploaded no later than the break preceding your talk.

Posters

The poster session will be held prior to the Student/Professional Mixer on Tuesday, 6 March, in Chief Taghee Room. Poster displays should be set up during lunch or other meeting breaks but prior to the beginning of the poster session. Tacks/tape to secure posters to the presentation boards will be provided, however, please bring some if you have them just in case. Nothing can be taped or pinned to the walls, only use the cork boards provided. All authors should be at their posters and prepared to discuss their work from 17:30 to 19:00 on Tuesday evening. Posters must be removed after the social.

Résumé Review

A résumé review station will be available to provide students an opportunity to receive feedback on their résumé, ask questions and seek advice from wildlife professionals from across different fields working in the private or public sector. The station will be open **Tuesday, March 6th, from 12 pm - 1:15 pm**. Location will be near the vendor tables at reserved tables in the Chief Taghee Room.

Notice to all attendees: As a courtesy to all presenters, we request that you turn off your cellular phones while attending sessions and meetings.

Monday Morning & Afternoon

Workshops

- 08:00-12:00 Idaho Bat Working Group Meeting (**Room— Chief Aramo**)
- 10:00-11:30 Idaho Bird Conservation Partnership Meeting (**Room– Chief Pocatello**)
- 12:00-14:00 **Lunch**
- 13:30-16:00 Idaho Bird Conservation Partnership Meeting (**Room-Chief Pocatello**)
- 14:00-17:00 Idaho Partners in Amphibian and Reptile Conservation Meeting (**Room– Chief Aramo**)



Idaho Bird Conservation Partnership Meeting—Agenda

- 10:00 Convene ... coffee/tea
- 10:15 Welcome, Introductions, and Context
- 10:30 Fall 2017 meeting recap and continuing IBCP action items
- 10:50 Working Group updates (brief), including:
State Wildlife Action Plan (SWAP) implementation
Conservation Delivery
Including upcoming NRCS bird conservation workshops (March 2018)
Outreach, Education, & Citizen Science
Pressing Issues
Research & Monitoring
Funding Acquisition
Information Management
- 11:30 Lunch
- 13:00 Incorporating bird conservation information into Hunter's Education – Deniz Aygen, Idaho Department of Fish and Game
- 13:30 Regional White-faced Ibis tracking study? – Trisha Cracroft, NRCS, and Jay Carlisle, IBO
- 13:45 IBCP communication strategy development – continued discussions
- 14:00 Idaho TWS 2018 Meeting Theme: "The Future of the Wildlife Profession" – discuss the relevance to IBCP? i.e., funding, collaborative approaches, etc.
- 14:15 MBTA update – important changes on horizon?
- 14:30 Coffee/snack break
- 14:45 Working Group breakout discussion(s) and/or 1 or more additional updates
- 15:45 Re-convene; action items for the spring/summer

Monday Morning & Afternoon

Idaho Bat Working Group Meeting—Agenda Items

- Hibernacula survey protocol and training—need to convene this subgroup to develop protocol and training
- Wind energy subgroup—need to convene this group to make progress with existing facilities and new ones in the design phase
- WNS Response Plan status
- Bat acoustic data processing—the Central Oregon Bat Hub—who's in?
- Proposal to revive Annual Idaho Bat Status Survey Reports (1995–1998)
- Proposal to organize bat session (separate from Idaho Bat Working Group Workshop) at 2019 Annual Idaho Chapter of The Wildlife Society or organize a separate meeting to give the Idaho bat community an opportunity to highlight their work through formal presentations
- Southwestern Idaho summer field event—bat blitz or targeted survey (harp trapping, acoustics, & IR video recording) at abandoned mine land (AML) site in conjunction with BLM–IDFG gated AML project
- North American Bat Conservation Alliance (NABCA) wiki—what it is and how to contribute
- WNS surveillance efforts including winter 2017–2018 hibernacula surveys & spring emergence sampling
- North American Bat Monitoring Program (NABat) in Idaho—next steps
- One Health approach to messaging about bats
- Idaho State Wildlife Action Plan—implementing bat conservation actions
- Excluding bats from buildings
- Bat data sharing and data management
- Bats and bridges



Idaho Partners in Amphibian and Reptile Conservation Meeting—Agenda Items

- National PARC Update
- Northwest PARC Update
- Idaho Amphibian and Reptile iNaturalist Project
- BLM Biodiversity Days
- Idaho Regional Reports and Discussion
- 2019 Idaho PARC Meeting Plans

Tuesday Morning Plenary

Plenary Session Invited Speaker Biographies

John Freemuth, Ph.D. - is Professor of Public Policy and Executive Director of the Andrus Center for Public Policy. His primary interest is with the public lands of the United States. He wrote “Thoughts on the Role of Science in Public Policy Making” in Ecology and Conservation of Greater Sage-Grouse: A Landscape Species and Its Habitats and just published his and Zachary Smith’s Environmental Politics and Policy in the West (UC Boulder). He chaired the Science Advisory Board of the Bureau of Land Management, after being appointed by Interior Secretary Bruce Babbitt. He is principal investigator on a grant from the United States Geological Survey working on improving the policy utility of GAP Analysis and with the Andrus Center is working on a grant from the Bureau of Land Management on policy issues surrounding BLM in Idaho. He has been a high school teacher and seasonal park ranger. While a ranger, at Glen Canyon National Recreation Area he wrote “Wanderer for Beauty: Everett Ruess in the Glen Canyon Area”, a park interpretive handout and is glad Everett has yet to be found. He has a BA from Pomona College and a Ph.D. from Colorado State University. He was named the Carnegie Foundation for the Advancement of Teaching /CAES of Professor of the Year for Idaho for 2001.

Virgil Moore - has over 40 years of experience in fish and wildlife management – 39 years with Idaho Dept. of Fish and Game. Before taking his current position, he served as Director of Oregon Fish and Wildlife and Deputy Director for Field Operations at Idaho Fish and Game. Virgil is active in the Association of Fish and Wildlife Agencies, Western Association of Fish and Wildlife Agencies, and AFS. He is currently President of AFWA, Member of WAFWA EXCOM and Chair of the WAFWA Sagebrush Executive Oversight Committee. He formally has been President of the Fisheries Administrators Section of AFS and EXCOMM member of ICAFS. Virgil holds an MS Zoology from Idaho State University and BS Biology, Northwest Missouri State University.

Lisette Waits, Ph.D. - has a BS in Genetics from University of Georgia and PhD in Genetics from University of Utah where she worked on the genetics of grizzly bears. She did a postdoc in France working on brown bears in France and Sweden. She joined the faculty in the Department of Fish and Wildlife Sciences at the University of Idaho in 1997 and is currently a Distinguished Professor and Department Head. She is an elected fellow of The Wildlife Society and the American Association for the Advancement of Science. She is also the proud mother of 19 and 21 year old boys.

Dan Stone - is a Tribal member and a resident of the Fort Hall Reservation. He is a graduate of Idaho State University, with a Bachelors of Arts in Philosophy, and a graduate of the University of Idaho College of Law, with an emphasis on American Indian and natural resource law. Mr. Stone is a licensed attorney with the State of Idaho and the Shoshone-Bannock Tribes Court. He is currently serving a term on the Fort Hall Business Council, offering policy guidance in the protection of on and off reservation Tribal rights and interests.

Tuesday Morning—Chief Taghee

Plenary Session (Chair: Ross Winton)

- 08:00-08:15 **Welcome** by Anna Owsiak (President, ICTWS)
- 08:15-08:30 **Invocation** by Randy'L Teton (Shoshone-Bannock Tribe Public Relations Director)
- 08:30-08:45 **Presentation** by Dan Stone (Shoshone-Bannock Tribal Council Member)
- “Future of the Wildlife Profession”**
- 08:45-09:15 **John Freemuth, Ph.D.**, Executive Director, Andrus Center for Public Policy.
- 09:15-09:45 **Virgil Moore**, Director, Idaho Department of Fish and Game.
- 09:45-10:15 **Lisette Waits, Ph.D.**, Distinguished Professor and Department Head, Department of Fish and Wildlife Sciences, University of Idaho.
- 10:15-10:50 BREAK**
- 10:50-12:00 Questions and Panel Discussion
- 12:00-14:00 LUNCH (on your own)**

Tuesday Afternoon— Chief Pocatello

*Names of presenters are capitalized; those presenters with an * are students*

Special Session: Crowdsourced and Citizen Science Data (Chair: Charles Peterson & Angie Schmidt)
(Room—Chief Pocatello)

- 14:00-14:20 **Idaho Master Naturalists - Citizen Scientists in Action.** TONY APPLEHANS
- 14:20-14:40 **Engaging Citizen Scientists in Monarch Butterfly Research and Conservation using the ArcGIS Collector App.** DUSTY PERKINS
- 14:40-15:00 **eBird (Citizen Data Collection) for Biologists and Wildlife Managers.** JAY CARLISLE
- 15:00-15:20 **Using iNaturalist for Idaho Amphibian and Reptile conservation.** CHARLES PETERSON
- 15:20-15:40 BREAK**
- 15:40-16:00 **Project WAfls: Engaging Citizen-scientists across Western North America in a Statistically Rigorous Survey of an Under-studied Raptor.** ROBERT MILLER
- 16:00-16:20 **Idaho Species Diversity Database: Data consumption and Uses for Conservation Planning.** ANGIE SCHMIDT
- 16:20-16:40 **Animal and Plant Data Centralization and Web Display for Natural Resource Planning in Montana.** BRYCE MAXELL
- 16:40-17:20 **Panel Discussion**

Tuesday Afternoon—Chief Racehorse A

Wildlife Management (Chair: Courtney Conway) (Room—Chief Racehorse A)

- 14:00-14:20 **Columbian Sharp-tailed Grouse as an Indicator Species: Is the Process of Implementing CRP-SAFE Compensating for Enrollment Decline?** GIFFORD GILLETTE
- 14:20-14:40 **Establishing a Contemporary Baseline of Wolverine Distribution and Genetics Across 4 Western States.** DIANE EVANS-MACK
- 14:40-15:00 **Field Test of Artificial Insemination Intended to Increase Nest Initiation Rates of Translocated Sharp-tailed Grouse.** STEVEN MATHEWS*
- 15:00-15:20 **An Evaluation of Camera Trap Performance - What Are You Missing and Does Deployment Height Matter?** CAITLIN JACOBS
- 15:20-15:40 **BREAK**

Human Dimensions (Chair: Bryan Stevens) (Room—Chief Racehorse A)

- 15:40-16:00 **Osprey Habitat Suitability at the Rural-Urban Interface in Central Idaho.** TYRELL STYHL*
- 16:00-16:20 **Overview of USFWS Western Golden Eagle Team's Risk Assessment and Conservation Planning Program.** KATIE POWELL
- 16:20-16:40 **The Elephants of Gorongosa: An Integrated Approach to Conservation and Conflict Mitigation in the Shadow of War.** PAOLA BRANCO*
- 16:40-17:00 **Wolverine Responses to Winter Recreation: Effects of Recreation Type and Intensity on Habitat Use.** KIMBERLY HEINEMEYER
- 17:00-17:20 **Quantifying Eagle Vehicle Strike Risk in the West.** DUSTIN MALONEY
- 17:30-18:30 **Poster Session (Room - Chief Taghee)**
- 18:30-23:00 **Student/ Professional Mixer and Poster Session (Room - Chief Taghee)**

Tuesday Evening Poster Session— Chief Taghee

*Names of presenters are capitalized; those presenters with an * are students*

Posters: Title and Author

1. **Birds and Bugs in a Wilderness Riverscape: Investigation of Resource Wave Propagation and Exploitation.** LINDSAY ANDERSON
2. **Behavior and Activity Patterns of American Pikas at Craters of the Moon National Monument and Preserve.** MEGAN CAMP*
3. **Estimating Breeding Pairs by Counting Litters: Genetic Reconstruction of Siblings Among Harvested Young of the Year.** HEATHER CLENDENIN*
4. **Vegetative Analysis of Columbia Basin Pygmy Rabbit (*Brachylagus Idahoensis*) Habitat.** AUSTIN DUPUIS*
5. **Using High-Frequency GPS Relocations to Evaluate Fear-Enhancing Treatments for Reducing White-tailed Deer Depredation of Agricultural Crops.** KAYTE GROTH*
6. **Modifying Elk Behavior to Reduce Crop Damage and Increase Social Carrying Capacity in an Agriculture Dominated Landscape.** JOHN GUTHRIE*
7. **Experimental Restoration of Non-Native Crested Wheatgrass Monoculture to Sage-Steppe Assemblages.** ANDREA KRISTOF*
8. **Improving Management of Stopover Habitat for Migratory Waterbirds by Understanding the Factors that Shape Submerged Aquatic Vegetation Communities.** ANDREA KRISTOF*
9. **Investigating the Influence of Habitat Heterogeneity on Diversity of Insectivorous Birds in a River-Floodplain Mosaic.** PAIGE MILLER*
10. **Habitat Structure Modifies Microclimate: An Approach for Mapping Fine-Scale Thermal Refugia.** CHARLOTTE MILLING
11. **Making the Concept of “Cover” More Explicit in Wildlife-Habitat Ecology.** EMILY NIGHTINGALE*
12. **The Diversity and Conservation of Mountainsnails (*Oreohelix*) From the Lower Salmon River.** ANNA OETTING*
13. **Wildlife Utilization of Russian Olive Groves on the Sterling Wildlife Management Area.** CODY PROUSE*
14. **A Social-Ecological Approach for Evaluating Likelihood of Conflict with Grizzly Bears in Idaho and Montana.** ABBY SAGE*
15. **Identifying Mechanisms Underlying Greater Sage-Grouse Response to Livestock Grazing.** LINDSEY SANDERS*
16. **Quantifying the Nutritional Landscape for Moose: An Approach for Assessing Large-Scale Changes in Forage.** THOMAS SCHREMPF
17. **Modeling the Range-Wide Distribution of Pygmy Rabbits and Overlap with Areas Managed for Sage-Grouse.** IAN SMITH*
18. **Integrated Monitoring in Bird Conservation Regions (IMBCR) in Idaho.** REGAN TEMPE
19. **Identifying Wildlife-Vehicle Collision Hotspots and Mitigation Strategies: The Road Less Traveled in Idaho.** HILARY TURNER
20. **Implications of Grazing Utilization Levels on Greater Sage-Grouse Habitat in Central Idaho Mesic Meadows.** KERI YORK*
21. **Juniper Removal in Sagebrush Communities: Implications for Species Interactions.** AARON YOUNG*
22. **Use of Camera Trap Monitoring to Detect Abundance and Distribution of Jaguar and other Forest Carnivores/Prey Species in Costa Rican Neotropical Rain Forests** LESLIE HAY
23. **A Summary of the Idaho Climate Summit, Post Summit Actions, with Attention to Implication for the Chapter, Professional Biologists, Wildlife and Wildlife Recreation in Idaho.** GREGG SERVHENN
24. **The Idaho Amphibian and Reptile iNaturalist Project 2017 Update.** PATRICK GILTZ*

Wednesday Morning—Chief Pocatello

*Names of presenters are capitalized; those presenters with an * are students*

Habitat Use & Ecology/ Landscape Ecology (Chair: Tara Ball) (Room—Chief Pocatello)

- 08:00-08:20 **Monarch Butterfly Habitat Suitability in Western Idaho.** DAVID DRAPER*
- 08:20-08:40 **Passive Restoration of Riparian Habitat at a Small, Perennial Mountain Stream.**
TONI HOLTHUIJZEN
- 08:40-09:00 **Opportunities to Restore Wildlife Habitat.** GIFFORD GILLETTE
- 09:00-09:20 **Weed Suppressive Bacteria at Tex Creek Wildlife Management Area: First Year Highlights of a Multi-Year Trial.** LOGAN PETERSON
- 09:20-09:40 **Greater Sage-Grouse Demographics and Use of Managed Sagebrush Habitats in Eastern Idaho.** SHANE ROBERTS
- 09:40-10:00 **Improving Management of Stopover Habitat for Migratory Waterfowl Using an Empirically Derived State-and-Transition Model.** ANDREA KRISTOF*
- 10:00-10:20 BREAK**
- 10:20-10:40 **A New Habitat Model for Northern Idaho Ground Squirrels.** NOLAN HELMSTETTER
- 10:40-11:00 **Teton Basin Trumpeter Swan Restoration Partnership.** BILL DELL'ISOLA
- 11:00-11:20 **An Overview of the Sage-Grouse Habitat Assessment Framework.** PAUL MAKELA
- 11:20-11:40 **A Comparison of Nutritional and Foraging Ecology of Sympatric Mule and White-tailed Deer.** LISA SHIPLEY
- 11:40-12:00 **Breeding Ecology and Habitat Suitability of Ferruginous Hawks (*Buteo Regalis*) in Southern Idaho.** KASSANDRA TOWNSEND*
- 12:00-14:00 Idaho Chapter of The Wildlife Society Business Lunch (Room—Chief Taghee)**
(Lunch on your own if you are not attending the business lunch.)

Wednesday Morning—Chief Racehorse A

Ignite! Presentations (Chair: Michelle Commons-Kemner) (Room—Chief Racehorse A)

- 08:00-08:07 **Quantifying Deer and Elk Behavior and Effectiveness of Depredation Prevention Treatments in Agricultural Landscapes of Idaho.** SOPHIE GILBERT
- 08:07-08:14 **Investigating the Decline and Decreased Resilience of the Greater Yellowstone Trumpeter Swan in Idaho.** ANDREA KRISTOF*
- 08:14-08:21 **Using Remotely-Sensed Cameras to Classify Mule Deer Populations.** ERIC FREEMAN
- 08:21-08:28 **Smartphone Lidar Can Measure Keystone Habitat Structures for Wildlife Studies.** JESSICA STITT*
- 08:28-08:35 **Getting More of What Matters Done at Work and at Home.** QUINN SHURTLIFF
- 08:35-08:42 **Secretive Marshbird Baseline Monitoring at Bear Lake National Wildlife Refuge.** BEN WISHNEK
- 08:42-08:49 **Accuracy Assessment of Ungulate Seasonal Range Estimates Using New GPS Location Data.** SCOTT BERGEN
- 08:49-08:56 **Your Phone is an Awesome GPS.** PAM BOND
- 08:56-10:00 **QUESTIONS**
- 10:00-10:20 **BREAK**

Wildlife Ecology (Chair: Morgan Pfander) (Room—Chief Racehorse A)

- 10:20-10:40 **How are the Wolves Doing in Idaho? An Integrated Population Model to the Rescue.** JON HORNE
- 10:40-11:00 **Co-occurrence Between Sympatric Apex Predators Across a Diverse Landscape.** JESSICA KROHNER
- 11:00-11:20 **Variation in the Nutritional Landscape Links Forest Management to Population Performance of Moose.** THOMAS SCHREMPF
- 11:20-11:40 **Reproductive Rate, Food Habits, and Nutritional Condition of Bobcats in South Dakota.** BRANDON TYCZ
- 11:40-12:00 **Ecological Drivers of Elk Survival in Idaho.** JON HORNE

Wednesday Afternoon—Chief Pocatello

Genetics/ Climate/ Disease/ Contaminants (Chair: Bill Dell'Isola) (Room—Chief Pocatello)

- 14:00-14:20 **The Hazards of Disease: Strain-Specific Consequences of Mycoplasma Ovipneumonia Bighorn Sheep Epidemics.** BRANDI FELTS
- 14:20-14:40 **Using Wood Duck Eggshells to Biomonitor Lead in the Idaho Panhandle.** QUINN KENSEY*
- 14:40-15:00 **Using Historic Specimens to Provide Insight Into Native Bighorn Sheep Genetic Diversity and Connectivity in Idaho.** Kimberly Andrews, LISETTE WATTS
- 15:00-15:20 **A Summary of the Idaho Climate Summit, Post Summit Actions, with Attention to Implication for the Chapter, Professional Biologists, Wildlife and Wildlife Recreation in Idaho.** GREGG SERVHENN
- 15:20-15:40 BREAK

Methodologies (Chair: Andrew Mackey) (Room—Chief Pocatello)

- 15:40-16:00 **Factors Influencing Survival of Native and Translocated Mountain Quail in West-Central Idaho and Eastern Washington. Characterization of Ophrycystis elektroscirrah (OE) Parasite Infection in Western Idaho Monarch Butterflies (Danaus plexippus).** VICTORIA MARTINEZ*
- 16:00-16:20 **Identifying Phragmites Using Satellite Imagery and Validation Using Unmanned Aerial Systems in the Lower Coeur d'Alene River Basin.** SCOTT BERGEN
- 18:30-23:00 Social Hour, Banquet, Awards, Silent Auction and Raffle (Room—Chief Taghee)**

Wednesday Afternoon—Chief Racehorse A

Wildlife Ecology (Chair: Morgan Pfander) (Room—Chief Racehorse A)

- 14:00-14:20 **Movements of Greater Sage-Grouse (*Centrocercus Urophasianus*) During Incubation Recess.** JONATHAN DUDKO*
- 14:20-14:40 **Grizzly Bear Research in the Upper Snake Region.** JEREMY NICHOLSON
- 14:40-15:00 **Grizzly Bear Management in the Upper Snake Region.** JEREMY NICHOLSON
- 15:00-15:20 **Behavioral Plasticity Modulate the Indirect Effects of Interference Competition on Herbivore Fitness.** JENNIFER MEREMS*
- 15:20-15:40 **Developing Predictive Distribution Models for Secretive Marsh Birds: Occupancy and Spatial Modeling to Facilitate Habitat Conservation.** BRYAN STEVENS
- 15:40-16:00 **Ten Years After Wolf Harvest: What do we Know?** DAVID AUSBAND
- 18:30-23:00 Social Hour, Banquet, Awards, Silent Auction and Raffle (Room—Chief Taghee)**