

**Colorado and Wyoming Chapters of The Wildlife Society**  
**Joint Conference - March 4th - 7th**  
**Fort Collins, CO**

**Detailed Agenda\***

\*Please note this schedule is not finalized. The final schedule will be available in the conference program.

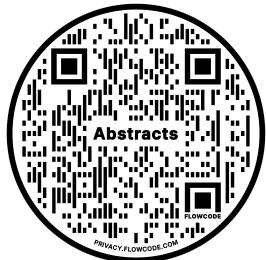
**BOARD MEMBERS:** Please send Brittany any edits you make to this schedule from now on (2/12) because I have added this to the program.

7:00 - 8:00 Tues, 4th	Welcome and Registration Table Open (pick up your name badge anytime) <i>Location: Atrium</i>
8:00 - 5:00 Tues, 4th	<b>Workshop:</b> The state of the CO-WY Beaverscape: Connecting on Cross-state Insights, Knowledge Gaps, and Pathways Forward <i>Location: Legends</i>
8:00 - 5:00 Tues, 4th	<b>Workshop:</b> Snow Field Measurements for Wildlife Research <i>Location: Salon 1</i>
8:00 - 5:00 Tues, 4th	<b>Workshop:</b> Environmental DNA for Wildlife Professionals <i>Location: Natural Resources</i>
8:00 - 5:00 Tues, 4th	<b>Workshop:</b> Beginner Distance Sampling: Abundance Estimation in R <i>Location: Vet Medicine</i>
8:00 - 5:00 Tues, 4th	<b>Workshop:</b> Harnessing North American Bat Monitoring Program Data for Analysis and Reporting <i>Location: Salon 5</i>
8:00 - 5:00 Tues, 4th	<b>Workshop:</b> Applying Open-Source Computer Vision Models to Camera Trap Images <i>Location: Salon 4</i>
8:00 - 12:00 Tues, 4th	<b>Workshop:</b> Integrated Monitoring in Bird Conservation Regions - Avian Point Count Workshop <i>Location: Green &amp; Gold</i>
9:00 - 12:00 Tues, 4th	<b>Workshop:</b> Discussion of State Wildlife Action Plan <i>Location: Salon 6</i>
9:15 - 1:30	<b>Field Trip:</b> National Black-Footed Ferret Conservation Center

Tues, 4th	<i>Location: Atrium / Entrance</i>
12:00 - 1:00 Tues, 4th	Welcome and Registration Table Open (pick up your name badge anytime) <i>Location: Atrium</i>
1:00 - 5:00 Tues, 4th	<b>Workshop:</b> The Rocky Mountain Avian Data Center 2.0: Connecting Natural Resource Stakeholders with IMBCR Breeding Bird Monitoring Data <i>Location: Green &amp; Gold</i>
1:00 - 5:00 Tues, 4th	Wyoming Golden Eagle Working Group Meeting <i>Location: Research</i>
4:00 - 5:45 Tues, 4th	Poster Session Set-up <i>Location: Salons 2 and 3</i>
4:00 - 6:00 Tues, 4th	Welcome and Registration Table Open <i>Location: Atrium</i>
6:00 - 9:00 Tues, 4th	Poster Session and Evening Social (Heavy apps and sliders provided; cash bar) <i>Location: Salons 2 and 3</i>

## Wednesday, March 5th

Presenting authors are marked in **bold** and students are marked with an asterisk\*  
Please find a list of full abstracts [here](#):



**SPEAKERS:** Please upload your slides between 7 and 8am the day of your presentation in your respective room.

7:00 - 4:00 Wed, 5th	Welcome and Registration Table Open (pick up your name badge anytime) <i>Location: Atrium</i>
8:00 - 8:15 Wed, 5th	Welcome and Opening Remarks <i>Location: Salons 1 and 2</i>

8:15 - 10:15 Wed, 5th	<b>Climate Justice Symposium</b> Gemara Gifford and CMarie Fuhrman <i>Location: Salons 1 and 2</i>		
10:15 - 10:45 Wed, 5th	Coffee Break (light refreshments provided)		
10:45 - 12:30 Wed, 5th	Fire and Ice I <i>Location: Salon 1</i>	Human Dimensions <i>Location: Salon 4</i>	Carnivore Ecology <i>Location: Legends</i>
10:45 - 12:30 Wed, 5th	<b>Fire and Ice I - Salon 1</b> Moderator: Brittany Wagler		
10:45 - 11:00 Wed, 5th Fire and Ice I Salon 1	Does Modeled Snow Data For Wildlife Applications Represent Reality? <b>Reinking</b> , Adele K.*, Glen E. Liston, Katherine B. Gura, Stine Højlund Pedersen, Kelly Elder, Banning Star, Dan McGrath, and George Wittemyer		
11:00 - 11:15 Wed, 5th Fire and Ice I Salon 1	Investigating The Role Of Wildfire Smoke On Oxidative Stress In Different Diet Guilds Of Migratory Birds In Southern Colorado <b>Miller</b> , Megan* and Claire Varian-Ramos		
11:15 - 11:30 Wed, 5th Fire and Ice I Salon 1	A Temperate Ungulate Alters Spatial Behavior After A Wildfire Of Mixed-Burn Severity <b>Ortega</b> , Anna C., Benjamin L. Wise, Dean Clause, Troy Fieseler, Jill E. Randall, Brandon M. Scurlock, Luke Wilde, Kevin L. Monteith, and Matthew J. Kauffman		
11:30 - 11:45 Wed, 5th Fire and Ice I Salon 1	Extreme Weather Impacts Ground Squirrel Reproductive Phenology; Fire And Ice, And Rain, And Snow <b>Rainey</b> , Travis A.* , Caitlin P. Wells, and Dirk Van Vuren		
11:45 - 12:00 Wed, 5th Fire and Ice I Salon 1	Seasonal Somatic Reserves Of A Northern Ungulate Influenced By Reproduction And A Fire-Mediated Landscape <b>Thompson</b> , Daniel P., Nicholas L. Fowler, John A. Crouse, Thomas J. McDonough, Oriana H. Badajos, Miles O. Spathelf, Dominique E. Watts, and Susanne U. Rodman		
12:00 - 12:15 Wed, 5th Fire and Ice I Salon 1	Predicting Summer Habitat For The Alpine-Endemic White-Tailed Ptarmigan In Colorado		

	<b>Parker</b> , Nicholas J.*, Amy E. Seglund, Gregory T. Wann, Meghan L. Mahoney, Sara J. Oyler-McCance, and Cameron L. Aldridge
12:15 - 12:30 Wed, 5th Fire and Ice I Salon 1	Water Resource Management On National Wildlife Refuges In A Changing Climate  <b>Wilkening</b> , Jennifer L., Rachel A. Esralew, and Benjamin F. Newman
10:45 - 12:30 Wed, 5th	<b>Human Dimensions - Salon 4</b> Moderator: Eric Bergman
10:45 - 11:00 Wed, 5th Human Dim. Salon 4	Initial Insights From Colorado's Wolf Monitoring Program  <b>Cassidy</b> , Brenna, Eric Odell, Ellen Brandell, Benjamin Wasserstein
11:00 - 11:15 Wed, 5th Human Dim. Salon 4	Colorado Rancher Perspectives On Nonlethal Livestock Protection Approaches  <b>Brager</b> , Jenna*, Veronica Yovovich, and Mireille (Ray) Gonzalez
11:15 - 11:30 Wed, 5th Human Dim. Salon 4	Research-Based Practices For Effective Stakeholder Engagement: The Case Of Wolf Reintroduction In Colorado  <b>Gonzalez</b> , Mireille, Rebecca Niemiec, and Michael Quartuch
11:30 - 11:45 Wed, 5th Human Dim. Salon 4	Social, Political, Biological, And Logistical Challenges And Opportunities For Wolf Restoration To Colorado  Odell, Eric, Reid DeWalt, Brian Dreher, David <b>Klute</b> , Brenna Cassidy, Adam Baca, and Ellen Brandell
11:45 - 11:12 Wed, 5th Human Dim. Salon 4	Lead-Free Collaborations And Outreach Efforts In Colorado  <b>Bedrosian</b> , Brian, Kristin Cannon, Aaron Kindle, and Leland Brown
12:00 - 12:15 Wed, 5th Human Dim. Salon 4	A Social-Ecological Systems Approach To Understanding Recreation-Wildlife Interactions In Utah's Wildlife Management Areas  <b>Arthur</b> , Lane J*, Anna B. Miller, and Austin M. Green
12:15 - 12:30 Wed, 5th Human Dim. Salon 4	N/A
10:45 - 12:30 Wed, 5th	<b>Carnivore Ecology - Legends</b> Moderator: Libby Mojica

10:45 - 11:00 Wed, 5th Carnivore Eco. <i>Legends</i>	Spatiotemporal Responses Of Bobcat Behavior To Contrasting Winter Severity  <b>Sawa</b> , Erin*, Shane Frank, and Joseph Holbrook		
11:00 - 11:15 Wed, 5th Carnivore Eco. <i>Legends</i>	Heading West: Ecology Of Swift Fox In A Novel Landscape Beyond Their Range  <b>Smith</b> , Austin B., Ashley G. Wolf, Kelsie R. Buxbaum, Leah H. Yandow, Christopher C. Keefe, Heather L. O'Brien, Neal C. Swayze, and Joseph D. Holbrook		
11:15 - 11:30 Wed, 5th Carnivore Eco. <i>Legends</i>	Home On The Range: Space Use And Habitat Selection Of Swift Fox Across A Shrubland Gradient  <b>Buxbaum</b> , Kelsie*, Austin B. Smith, Leah Yandow, Chris Keefe, Heather O'Brien, Neal C. Swayze, and Joseph D. Holbrook		
11:30 - 11:45 Wed, 5th Carnivore Eco. <i>Legends</i>	Radio-Marked Individuals Reveal Chronology, Movements, And Activity Patterns Of Grizzly Bears Using Moth Aggregation Sites In The Greater Yellowstone Ecosystem  <b>Clapp</b> , Justin G., Mark A. Haroldson, Justin A. Dellinger, Daniel D. Bjornlie, Daniel J. Thompson, and Frank T. van Manen		
11:45 - 12:00 Wed, 5th Carnivore Eco. <i>Legends</i>	Using Generalized Spatial-Mark-Resight To Estimate Density And Distribution Of Gray Wolves  <b>Meyer</b> , Connor*, Jesse Whittington, and Mark Hebblewhite		
12:00 - 12:15 Wed, 5th Carnivore Eco. <i>Legends</i>	N/A		
12:15 - 12:30 Wed, 5th Carnivore Eco. <i>Legends</i>	N/A		
12:30 - 2:00 Wed, 5th	Student Professional Mixer (Previous sign-up required; lunch provided) <i>Location: Salons 1 and 2</i>  Or Lunch on Your Own		
2:00 - 3:30	Fire and Ice II	Aquatics and Herps I	Bat Conservation

Wed, 5th	Location: Salon 1	Location: Salon 4	Location: Legends
2:00 - 3:30 Wed, 5th Fire and Ice II Salon 1	<b>Fire and Ice II - Salon 1</b> Moderator: Joe Holbrook		
2:00 - 2:15 Wed, 5th Fire and Ice II Salon 1	Using Lidar To Predict Suitable Canada Lynx Habitat In The Southern Rocky Mountains  <b>Byerly</b> , Shelby N., and Paige E. Copenhaver-Parry		
2:15 - 2:30 Wed, 5th Fire and Ice II Salon 1	Projecting Habitat Occupancy And Population Stage Structure In A Climate-Sensitive Species Using Markov Chain Analysis  <b>Baronofsky</b> , Van* and Chris Ray		
2:30 - 2:45 Wed, 5th Fire and Ice II Salon 1	Backcountry Recreation And Carnivore Behavior: Extending And Testing The Assessment Mismatch Hypothesis With Wolverine  <b>Holbrook</b> , Joe, Kimberly Heinemeyer, Julia O'Keefe, Mark Hebblewhite, Jeff Copeland, and John Squires		
2:45 - 3:00 Wed, 5th Fire and Ice II Salon 1	Activating Volunteers For Long-Term Ecological Monitoring Of A Climate Indicator Species  <b>Mondin</b> , Haley, Kinsey Greve, Julie Krajewski, Megan Mueller, Airy Gonzalez Peralta, and Chris Ray		
3:00 - 3:15 Wed, 5th Fire and Ice II Salon 1	Habitat Mapping And Current Status Of Canada Lynx In Colorado  <b>Ivan</b> , Jake, John Squires, Lucretia Olson, Peter McDonald, Joe Holbrook, Rebecca Boyce, Brent Frankland, Heather Halbritter, Joe Halseth, Morgan Hertel, Brian Holmes, Bryan Lamont, Julie Mao, Libbie Miller, Dan Neubaum, Eric Odell, Evan Phillips, Ed Schmal, Nate Seward, Brad Weinmeister, and Ty Woodward		
3:15 - 3:30 Wed, 5th Fire and Ice II Salon 1	Update On Wolverine Restoration Plan And Process  <b>Inman</b> , Bob, Jake Ivan, and Eric Bergman		
2:00 - 3:30 Wed, 5th	<b>Aquatics and Herps I - Salon 4</b> Moderator: Emily Shertzer		
2:00 - 2:15 Wed, 5th Aq. & Herps 1 Salon 4	Life History Traits Influence Method-Specific Detection Of Native And Invasive Amphibians In Colorado  <b>Davis</b> , Waverly*, Larissa Bailey, and Boyd Wright		
2:15 - 2:30 Wed, 5th	Wyoming Herpetological Society		

Aq. & Herps 1 Salon 4	<b>Lee</b> , Mason, Wendy Estes-Zumpf, Katrina Cook, Charlotte Snobberger, and Matt Rasmusse
2:30 - 2:45 Wed, 5th Aq. & Herps 1 Salon 4	Effects Of Infection Status And Diel Period On The Microhabitat Preferences Of A Declining Amphibian  <b>Breiner</b> , Margot E.*, Annika W. Walters, Gabriel M. Barrile, and Anna D. Chalfoun
2:45 - 3:00 Wed, 5th Aq. & Herps 1 Salon 4	A Hidden Threat: Carp's Direct Impact On Native Freshwater Mussels  <b>Poratti</b> , Samantha*, Lusha Tronstad, and Brianna Freeman
3:00 - 3:15 Wed, 5th Aq. & Herps 1 Salon 4	Assessment Of The Conservation Status Of Native Western Pearlshell Mussels In Grand Teton National Park  <b>Hollander</b> , Alexis H.*, and Lusha M. Tronstad
3:15 - 3:30 Wed, 5th Aq. & Herps 1 Salon 4	Effect Of Maternal Attendance Of Neonates In Prairie Rattlesnakes And Other Insights From A Seven-Month Model Study  <b>Goetz</b> , Scott M., Cole J. Boback, Hayley L. Crowell, W. Douglas Robinson, and Scott M. Boback
2:00 - 3:30 Wed, 5th	<b>Bat Conservation - Legends</b> Moderator: Riley Bernard
2:00 - 2:15 Wed, 5th Bat Conserv. Legends	Investigating Dietary Composition Of Bats Utilizing Bridges As Roosts In Wyoming  <b>Bernard</b> , Riley Fehr, Joshua Franklin Layfield, Logan William Detweiler, and Joel Sorensen
2:15 - 2:30 Wed, 5th Bat Conserv. Legends	Investigating Dietary Change During The Establishment Of WNS – A Case For Ecological Release?  <b>Lile</b> , Renee E.*, Ian Abernethy, and Riley F. Bernard
2:30 - 2:45 Wed, 5th Bat Conserv. Legends	Estimating Parturition From Pit Tag Detections For <i>Myotis lucifugus</i> In Colorado  <b>Gaulke</b> , Sarah*, Robert Schorr, Jeremy Siemers, Brian Reichert, and Bill Kendall
2:45 - 3:00 Wed, 5th Bat Conserv. Legends	Methods Of Recording Acoustic Voucher Calls From Hand-Released Bats  <b>Leever</b> , Jonathan R.*, Riley F. Bernard, and Ellen Whittle

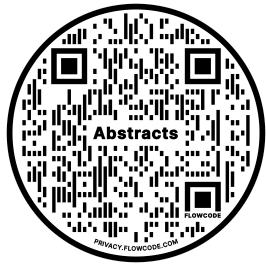
3:00 - 3:15 Wed, 5th Bat Conserv. <i>Legends</i>	Ongoing Population Monitoring And Wns Intervention For Endangered Northern Long-Eared Bats In Wyoming  <b>Whittle</b> , Ellen, and Ian Abernethy		
3:15 - 3:30 Wed, 5th Bat Conserv. <i>Legends</i>	Candid Cave Cam: Revealing Bat Behavior For Proactive Conservation  <b>Yearout</b> , Julia A.*, and Riley F. Bernard		
3:30 - 4:00 Wed, 5th	Coffee Break (light refreshments provided)		
4:00 - 5:45 Wed, 5th	Conservation and Management <i>Location: Salon 1</i>	Aquatics and Herps II <i>Location: Salon 4</i>	Pollinators <i>Location: Legends</i>
4:00 - 5:45 Wed, 5th	<b>Conservation and Management</b> - <i>Salon 1</i> Moderator: Tana Verzuh		
4:00 - 4:15 Wed, 5th Consv. & Mngmt. <i>Salon 1</i>	Co-Developing A Prioritization Tool To Guide Sagebrush Management For Wildlife Conservation In Northwest Colorado  <b>Tarbox</b> , Bryan C., Nick Van Lanen, Adrian P. Monroe, Trevor Balzer, and Cameron L. Aldridge		
4:15 - 4:30 Wed, 5th Consv. & Mngmt. <i>Salon 1</i>	Using Rates Of Change In Invasive Annual Grass Cover To Inform Future-Durable Invasive Species Management Actions Across The Sagebrush Biome  <b>Roche</b> , Morgan D., Michele R. Crist, Catherine S. Jarnevich, Helen R. Sofaer <sup>e</sup> , Cameron L. Aldridge, Lindy Garner, Seth Flanigan, Megan McLachlan, and Julie A. Heinrichs		
4:30 - 4:45 Wed, 5th Consv. & Mngmt. <i>Salon 1</i>	Oil And Gas Reclamation And Mitigation In The Sagebrush Ecosystem: What We Learned From Over A Decade Of Field Work In The Powder River Basin, Wyoming  <b>Fedy</b> , Brad C., and Christopher P. Kirol		
4:45 - 5:00 Wed, 5th Consv. & Mngmt. <i>Salon 1</i>	Managing Black-Tailed Prairie Dogs Using Gonacon Contraceptive Vaccine: Past And Present Field Efficacy Studies  <b>Shiels</b> , Aaron, Nathan Beard, Matthew Berta, John Callon, Seth Cook, Nathan Freihaut, Emma Hanslowe, Stacie Robinson, Danika Spock, and Jason Bruemmer		
5:00 - 5:15 Wed, 5th Consv. & Mngmt.	Human Expansion Mediates Anteater Distribution In The Colombian Llanos		

Salon 1	<b>Purdy</b> , Cole*, Mathew Hyde, Angélica Diaz-Pulido, Érika Humanez López, and Cesar Rojano
5:15 - 5:30 Wed, 5th Cons. & Mngmt. Salon 1	Raptors Perched On Power Poles Respond Similarly To Traditional And High-Visibility Uncrewed Aircraft Systems  <b>Dwyer</b> , James F., Harri Sedam, and John Mullin
4:00 - 5:45 Wed, 5th	<b>Aquatics And Herps II - Salon 4</b> Moderator: Austin Smith
4:00 - 4:15 Wed, 5th Aq. & Herps II Salon 4	Do Beaver Dam Analogs (BDAs) Reproduce The Biodiversity And Ecosystem Quality Services Provided By Beavers?  <b>Baldwin</b> , Alyssa*, Courtney Larson, and Melanie Murphy
4:15 - 4:30 Wed, 5th Aq. & Herps II Salon 4	Ecosystem Engineers For Hire: What Drives Amphibian Occupancy In Beaver-Mediated Wetlands?  <b>Davis</b> , Kathryn E. C.*., and Melanie A. Murphy
4:30 - 4:45 Wed, 5th Aq. & Herps II Salon 4	Enhancing Habitat Resilience In Post-Fire Watersheds Using Low-Tech Process-Based Restoration  <b>Heiden</b> , Chelsey, and Hally Strevey
4:45 - 5:00 Wed, 5th Aq. & Herps II Salon 4	Detecting Semi-Aquatic Mammals Using eDNA Metabarcoding  <b>Mangan</b> , Anna M., Derek Whipkey, Guillaume Bastille-Rousseau, Charlotte Narr, Jonathon Walls, Scott Beckerman, and Antoinette J. Piaggio
5:00 - 5:15 Wed, 5th Aq. & Herps II Salon 4	Comparison Of eDNA Metabarcoding And Conventional Sampling In Freshwater Lotic Systems  <b>Anderson</b> , Ellyse, Ryan Frieberthshauser, Antoinette Piaggio, and Ryan Fitzpatrick
5:15 - 5:30 Wed, 5th Aq. & Herps II Salon 4	Habitat Restoration And Population Augmentation Advances Species Recovery For The Critically Endangered Wyoming Toad  <b>Murphy</b> , Melanie
4:00 - 5:45 Wed, 5th	<b>Pollinators - Legends</b> Moderator: Lusha Tronstad
4:00 - 4:15	Multi-Scale Habitat Associations With Wyoming Butterflies

Wed, 5th Pollinators <i>Legends</i>	<b>Cook</b> , Katrina A.*, Bryan P. Tronstad, and Lusha M. Tronstad
4:15 - 4:30 Wed, 5th Pollinators <i>Legends</i>	Preliminary Results From Bumblebee Surveys And Pathogen Screenings Across Wyoming  <b>Storey</b> , A.M.*, L.M. Tronstad, and L. van Diepen
4:30 - 4:45 Wed, 5th Pollinators <i>Legends</i>	Refining Methods To Collect Bees In Wyoming: Height, Distance And Duration Of Sampling With Pan Traps And Vane Traps  <b>Tronstad</b> , Lusha M., Bryan Tronstad, and Christine Bell
4:45 - 5:00 Wed, 5th Pollinators <i>Legends</i>	Pollinators And Public Participation In The Planning Process: Using Monarch Butterflies As Indicator Species To Inform Management Decisions  <b>Whipple</b> , Sarah , Emma Dietrich, Sarah Carter, Zachary Ormsby, and Benjamin Hoke
5:00 - 5:15 Wed, 5th Pollinators <i>Legends</i>	Insect Pollinators Alter Flower-Handling Time And Other Behaviors Based On Proximity To Wind Turbines  <b>Weschler</b> , Michelle, Brenna Martin, and Lusha Tronstad
5:15 - 5:30 Wed, 5th Pollinators <i>Legends</i>	Balancing Pollinator Conservation With The Management Of Invasive Plants In The Northern Great Plains  <b>Crawford</b> , Nina*, and Lusha Tronstad
6:00 - 7:30 Wed, 5th	Out in the Field Mixer (off-site, pre-registration required) Or Dinner on your own

## Thursday, March 6th

Presenting authors are marked in **bold** and students are marked with an asterisk\*  
Please find a list of full abstracts [here](#):



**SPEAKERS: Please upload your slides between 7 and 8am the day of your presentation in your respective room.**

7:00 - 11:00 Thurs, 6th	Welcome and Registration Table Open (pick up your name badge anytime) <i>Location: Atrium</i>		
8:00 - 8:05 Thurs, 6th	Welcoming Remarks and Announcements <i>Location: Salons 1 and 2</i>		
8:05 - 10:00 Thurs, 6th	Climate Change Plenary and Panel Discussion Drs. Scott Denning and Quentin Hays  Additional panelists: Dr. Angela Boag, Thomas Kamienski, and Misti Sporer Moderator: Nifer Wikening <i>Location: Salons 1 and 2</i>		
10:00 - 10:30 Thurs, 6th	Coffee Break (light refreshments provided)		
10:30 - 12:30 Thurs, 6th	Avian Conservation I <i>Location: Salon 1</i>	Ungulate Ecology I <i>Location: Salon 4</i>	Disease I <i>Location: Legends</i>
10:30 - 10:30 Thurs, 6th	<b>Avian Conservation I - Salon 1</b> Moderator: Alex Kumar		
10:30 - 10:45 Thurs, 6th Avain Consv. <i>Salon 1</i>	Human Mobility Contributions To Negative Recreation Impacts Suggest Management Strategies For Bird Conservation On Colorado Public Lands  <b>Latif</b> , Quresh, Liza Rossi, Mathew McLaren, Jennifer Timmer, Melissa Dressen, Christopher Keefe, Mark Ditmer, Heather Abernathy, and Rob Sparks		
10:45 - 11:00 Thurs, 6th Avain Consv. <i>Salon 1</i>	Using Interannual Occupancy And Photogrammetry To Examine Habitat Preferences In Sagebrush-Obligate Songbirds  <b>Schoenborn</b> , Erik*, and Anna D. Chalfoun		
11:00 - 11:15 Thurs, 6th Avain Consv. <i>Salon 1</i>	Avian Distribution And Composition Relationships With Bark Beetle Infestation In The Powderhorn Wilderness, CO  <b>Myers</b> , Arrow*, Patrick Magee, and Kathy Brodhead		

11:15 - 11:30 Thurs, 6th Avain Consv. <i>Salon 1</i>	Investigating Environmental Drivers Of Sagebrush Obligate Bird Density In The Gunnison Basin: A Spatiotemporal Analysis Of Habitat  <b>Park</b> , Caleb*, Patrick Magee, Madelon van de Kerk, and Kathy Brodhead
11:30 - 11:45 Thurs, 6th Avain Consv. <i>Salon 1</i>	Non-Breeding Movement Strategies Of Sagebrush-Associated Songbirds  <b>Shertzer</b> , Emily*, and Anna Chalfoun
11:45 - 12:00 Thurs, 6th Avain Consv. <i>Salon 1</i>	Annual Grass Invasion Is Transforming The Sagebrush Biome's Songbird Communities  <b>Hobart</b> , Brendan K., Wynne E. Moss, Maxwell C. Cook, R. Chelsea Nagy, and Valerie J. McKenzie
12:00 - 12:15 Thurs, 6th Avain Consv. <i>Salon 1</i>	Negative Effects Of Sagebrush Removal Treatments On Nontarget Birds And Small Mammals  <b>Sauer</b> , Katherine J., Zachary P. Wallace, and Jason D. Carlisle
12:15 - 12:30 Thurs, 6th Avain Consv. <i>Salon 1</i>	Effects Of Noise From Oil And Gas Development On Raptors And Songbirds: A Science Synthesis For Land Managers  <b>Rutherford</b> , Tait K., Sarah K. Carter, Aaron N. Johnston, Nathan J. Kleist, Richard J. Lehrter, Elisabeth C. Teige, John C. Tull, and David J.A. Wood
10:30 - 12:30 Thurs, 6th	<b>Ungulate Ecology I - Salon 4</b> Moderator: Embere Hall
10:30 - 10:45 Thurs, 6th Ungulate Eco. 1 <i>Salon 4</i>	Apex Predator V. 'Super Predator': Large Carnivore Feeding Is Resilient To Human Disturbance  <b>Clapp</b> , Justin G.*, Justin Binfet, Cade B. Bowlin, and Joseph D. Holbrook
10:45 - 11:00 Thurs, 6th Ungulate Eco. 1 <i>Salon 4</i>	Dynamics Of Human-Ungulate Interactions In A High-Visitation Alpine Area  Nageotte, Nichole L., Julie <b>Krajewski</b> , Kate D. Wilkins, Shelby E. McDonald, Jessica Quinton, L. Stefan Ekernas
11:00 - 11:15 Thurs, 6th Ungulate Eco. 1 <i>Salon 4</i>	Evaluating The Influence Of Wind Energy On Pronghorn Movement And Distribution  <b>Wallace</b> , Cody*, Hall Sawyer, L. Embere Hall, Teal Cufaude, Lee Knox, Martin Hicks, Heather O'Brien, Rob Shipe, Brandon Werner, and Matthew J. Kauffman
11:15 - 11:30 Thurs, 6th	Drivers Of Multispecies Collective Movements In Yellowstone Ungulates

Ungulate Eco. 1 Salon 4	<b>Caldwell</b> , Molly R.*, Chris Geremia, Daniel Stahler, Daniel MacNulty, Douglas Smith, and Jerod A. Merkle
11:30 - 11:45 Thurs, 6th Ungulate Eco. 1 Salon 4	Exploration By Mule Deer During Migration  <b>Cowell</b> , Ashley*, and Jerod Merkle
11:45 - 12:00 Thurs, 6th Ungulate Eco. 1 Salon 4	Risks To The Intermountain West Of Invasive Feral Swine Introduction  <b>Smyser</b> , Timothy J., and Antoinette J. Piaggio
12:00 - 12:15 Thurs, 6th Ungulate Eco. 1 Salon 4	Live Plants In Restoration: Use Cases And Improving Efficacy  <b>Jensen</b> , Scott, Tom Glass, and Robby Edgel
12:15 - 12:30 Thurs, 6th Ungulate Eco. 1 Salon 4	N/A
10:30 - 12:30 Thurs, 6th	<b>Disease I - Legends</b> Moderator: Gabe Barrille
10:30 - 10:45 Thurs, 6th Disease I Legends	Modeling Transmission Risk Of Chronic Wasting Disease In Mule Deer Related To Habitat Characteristics In Wyoming  <b>Christensen</b> , Erica M., Nathan J. Kleist, David R. Edmunds, Julie A. Heinrichs, D. Joanne Saher, Ashley L. Whipple, Sydney Watkins, Melia DeVivo, Cameron L. Aldridge
10:45 - 11:00 Thurs, 6th Disease I Legends	Comparison Of Techniques And Tissues Used For Diagnostics Of Chronic Wasting Disease In Rocky Mountain Elk ( <i>Cervus canadensis nelsoni</i> )  <b>Grider</b> , John F., William H. Edwards, Jennifer L. Malmberg, Karen A. Griffin, Terry Sprake, and Mary E. Wood
11:00 - 11:15 Thurs, 6th Disease I Legends	Evaluation Of Composting CWD-Positive Rocky Mountain Elk ( <i>Cervus canadensis nelsoni</i> ) By Detection Of PrP <sub>Sc</sub> In Composted Environmental Samples Using Real-Time Quaking-Induced Conversion (Rt-Quic)  <b>Hashem</b> , Brie, Stuart S. Lichtenberg, Samantha E. Allen, Robert Michitsch, Daniel Pinneo, Eric Newkirk, and Peach Van Wick
11:15 - 11:30 Thurs, 6th Disease I Legends	An Individual-Based Modeling Framework For 'Gaming' Strategies To Manage Chronic Wasting Disease In Wyoming Mule Deer

	<b>Heinrichs</b> , Julie A., Sydney Watkins, D. Joanne Saher, David Edmunds, Ashley L. Whipple, Nathan J. Kleist, Erica M. Christensen, and Cameron L. Aldridge		
11:30 - 11:45 Thurs, 6th Disease I <i>Legends</i>	Prevalence Of Avian Influenza Virus In Atypical Wild Bird Host Groups During An Outbreak Of Highly Pathogenic Strain EA/AM H5N1  Ringenberg, Jourdan M., Kelsey <b>Weir</b> *, Lee Humberg, Carl Voglewede, Mitch Oswald, Jeffrey Root, Krista Dilione, Evan Casey, Michael Milleson, Timothy Linder, and Julianna Lenoch		
11:45 - 12:00 Thurs, 6th Disease I <i>Legends</i>	Breeding Season Habitat Use, Cooccurrence, And Behavior In A Multi-Host Cervid Community  <b>Windell</b> , Becca*, Sydney Simpson, Scott Fesmire, Jenn Malmberg, Larissa Bailey, Todd Nordeen, Georgia Titcomb		
12:00 - 12:15 Thurs, 6th Disease I <i>Legends</i>	N/A		
12:30 - 2:00 Thurs, 6th	CC-TWS Business Meeting (previous signup required; lunch provided) <i>Location: Salon 2</i>		
12:30 - 2:00 Thurs, 6th	WY-TWS Business Meeting (previous signup required; lunch provided) <i>Location: Salon 3</i>  Or Lunch on Your Own		
2:00 - 3:30 Thurs, 6th	Sage-grouse Ecology <i>Location: Salon 1</i>	Ungulate Ecology II <i>Location: Salon 4</i>	Disease II <i>Location: Legends</i>
2:00 - 3:30 Thurs, 6th	<b>Sage-grouse Ecology - Salon 1</b> Moderator: Kathy Griffin		
2:00 - 2:15 Thurs, 6th Sage-grouse <i>Salon 1</i>	Longitudinal Investigation Into The Mechanisms Leading To Lower Fitness Rates Of Greater Sage-Grouse In An Anthropogenic Landscape  <b>Kirol</b> , Christopher P., and Bradley C. Fedy		
2:15 - 2:30 Thurs, 6th Sage-grouse <i>Salon 1</i>	Varying Spatial Scales Of Effect For Sagebrush Cover Across The Greater Sage-Grouse Range, And Implications For Management  <b>Monroe</b> , Adrian P., Michael S. O'Donnell, Julie A. Heinrichs, Luke O. Frishkoff, Gregory T. Wann, Matthew B. Rigge, Erin K. Buchholtz, Ashley L. Whipple, Brian G. Prochazka, Peter S. Coates, and Cameron L. Aldridge		
2:30 - 2:45 Thurs, 6th	Range-Wide Environment-Associated Adaptive Divergence And		

Sage-grouse <i>Salon 1</i>	Conservation Of The Greater Sage-Grouse  <b>Zimmerman</b> , Shawna J., Cameron L. Aldridge, Jennifer A. Fike, and Sara J. Oyler-McCance
2:45 - 3:00 Thurs, 6th Sage-grouse <i>Salon 1</i>	Addressing Uncertainty In Daily Lek Attendance And Inter-Lek Movement Of Male Greater Sage-Grouse  <b>Ruzicka</b> , Rebekah E., Brett L. Walker, and William L. Kendall
3:00 - 3:15 Thurs, 6th Sage-grouse <i>Salon 1</i>	Testing Conventional And Controversial Habitat Treatments To Offset Impacts Of Energy Development On Greater Sage-Grouse In Western Colorado  <b>Walker</b> , Brett L., Kelli A. Stone, Trevor Balzer, and Kelli A. Pauling
3:15 - 3:30 Thurs, 6th Sage-grouse <i>Salon 1</i>	N/A
2:00 - 3:30 Thurs, 6th	<b>Ungulate Ecology II - Salon 4</b> Moderator: Jerod Merkle
2:00 - 2:15 Thurs, 6th Ungulate Eco. II <i>Salon 4</i>	An Assessment Of Solar-Powered GPS Ear Tags On Ungulates  <b>Olson</b> , Lucas O., Jerod Merkle, Peach Van Wick, Brie Hashem, Samantha E. Allen, Eric Newkirk, and Embere Hall
2:15 - 2:30 Thurs, 6th Ungulate Eco. II <i>Salon 4</i>	Older And Wiser? Evidence Of Behavioral Compensation For Reproductive Senescence  <b>Levine</b> , Rebecca L., Tayler N. LaSharr, Rebekah T. Rafferty, Brittany L. Wagler, Rachel A. Smiley, Rhiannon P. Jakopak, Jill Randall, Troy Fiesler, Brandon Scurlock, and Kevin L. Monteith
2:30 - 2:45 Thurs, 6th Ungulate Eco. II <i>Salon 4</i>	A Case Study Evaluating Strategic Management Of Invasive Annual Grasses To Benefit Mule Deer  <b>Smith</b> , Kurt, Brian Mealor, Hall Sawyer, and Jerod Merkle
2:45 - 3:00 Thurs, 6th Ungulate Eco. II <i>Salon 4</i>	Ranking Climate And Habitat Suitability Effects On Mule Deer Population Age-Ratios In Wyoming, USA  <b>Graves</b> , Tabitha A., William M. Janousek, Aaron Johnston, Embere Hall, Sarah Bullock, Kevin Monteith, and Matthew Kauffman
3:00 - 3:15 Thurs, 6th Ungulate Eco. II <i>Salon 4</i>	How Animals Discover Habitat And Refine Their Movements To Restricted Areas: Evidence From Reintroduced Bison

	<b>Verzuh</b> Tana L, Karsten Heuer, Cody F. Wallace, and Jerod A. Merkle		
3:15 - 3:30 Thurs, 6th Ungulate Eco. II Salon 4	Counting Elk: Estimating The Abundance Of A Gregarious Ungulate  <b>Carlisle</b> , Jason D., Eric S. Newkirk, and L. Embere Hall		
2:00 - 3:30 Thurs, 6th	<b>Disease II - Legends</b> Moderator: Matthew Hopken		
2:00 - 2:15 Thurs, 6th Disease II Legends	A Nationwide Surveillance Program For Monitoring Highly Pathogenic Avian Influenza In Wild Migratory Birds  <b>Dilione</b> , Krista E., Jourdan Ringenberg, Michael Milleson, Scott Stopak, Kelsey Weir, and Sarah N. Bevins		
2:15 - 2:30 Thurs, 6th Disease II Legends	Detections Of Rabbit Hemorrhagic Disease Virus 2 (RHDV2) Following The 2020 Outbreak In Wild Lagomorphs Across The Western United States  <b>Ringenberg</b> , Jourdan, Kelsey Weir, Timothy Linder, and Julianna Lenoch		
2:30 - 2:45 Thurs, 6th Disease II Legends	Long-term carriage of <i>Mycoplasma ovipneumoniae</i> in bighorn sheep and implications for test and remove protocols  <b>Wagler</b> , Brittany L., Rachel A. Smiley, Jack N. Gavin, Tony W. Mong, Corey Class, Alyson B. Courtemanch, Cheyenne Stewart, Daryl Lutz, Zach Gregory, Patrick Hnilicka, Arthur Lawson, Brandon M. Scurlock, Jessica E. Jennings, Jennifer L. Malmberg, and Kevin L. Monteith		
2:45 - 3:00 Thurs, 6th Disease II Legends	Diagnostic Sensitivity Of Alternative Samples And Tissues For Lyssavirus Rabies Detection In Striped Skunks ( <i>Mephitis mephitis</i> )  <b>Mankowski</b> , Clara P., Matthew W. Hopken, Terry Spraker, and Amy T. Gilbert		
3:00 - 3:15 Thurs, 6th Disease II Legends	Contrasting Patterns Of Raccoon ( <i>Procyon lotor</i> ) Spatial Population Genomics Throughout A Rabies Management Area In Eastern North America  <b>Hopken</b> , Matthew W.,, Clara P. Mankowski, Christine Thurber, Antoinette J. Piaggio, Kathleen M. Nelson, Richard B. Chipman, Zaid Abdo, Tore Buchanan, Ariane Massé, and Amy T. Gilbert		
3:15 - 3:30 Thurs, 6th Disease II Legends	N/A		
3:30 - 4:00 Thurs, 6th	Coffee Break (light refreshments provided)		
4:00 - 5:45 Thurs, 6th	Avian Conservation II	Movement in a Human Dominated Landscape	Private Lands Symposium and

	<i>Location: Salon 1</i>	<i>Location: Salon 4</i>	<i>Discussion Location: Legends</i>
4:00 - 5:45 Thurs, 6th	<b>Avian Conservation II - Salon 1</b> Moderator: Brett Walker		
4:00 - 4:15 Thurs, 6th Avian Consv. II Salon 1	Leveraging Motus Expansion In The Western U.S. To Track Declining Grassland Birds Across The Full Annual Cycle  <b>Reese</b> , Jessie, Matt Webb, Kylie Lamoree, Nick Haddad, Chris Latimer, and Brandt Ryder		
4:15 - 4:30 Thurs, 6th Avian Consv. II Salon 1	Black Swift Annual Cycle Tracking  <b>Sparks</b> , Robert A., Eric Gross, Colin Woolley, and Greg J. Levandoski		
4:30 - 4:45 Thurs, 6th Avian Consv. II Salon 1	Energy Availability For Sandhill Cranes During Spring And Autumn Migration In The San Luis Valley, Colorado  <b>Vanausdall</b> , Rachel A., and William L. Kendall		
4:45 - 5:00 Thurs, 6th Avian Consv. II Salon 1	Establishing Baseline Hematological Values For Wild North American Raptors  <b>Turner</b> , Hilary A., Connor Hartnett, Salene Freeman, Megan Warren, Sheena Pate, and Bryan Bedrosian		
5:00 - 5:15 Thurs, 6th Avian Consv. II Salon 1	Restoration Of Cormorant Nesting On An Urban Lake  <b>Mansour</b> , Isabel, Rob Beane, Moneka Worah, and Ian Brokaw-Schillinger		
4:00 - 5:30 Thurs, 6th	<b>Movement in A Human Dominated Landscape - Salon 4</b> Moderator: Ben Robb		
4:00 - 4:15 Thurs, 6th Movement Salon 4	Ungulate Personality And The Human Shield Contribute To Long-Distance Migration Loss  <b>Cotterill</b> , Gavin G., Paul C. Cross, Eric K. Cole, Sarah R. Dewey, Benjamin L. Wise, Tabitha A. Graves		
4:15 - 4:30 Thurs, 6th Movement Salon 4	Prioritizing Fence Modifications And Assessing Outcomes Related To Big Game Movement  <b>Robb</b> , Benjamin S., Kurt T. Smith, Troy F. Fieseler, Jill Randal, Hall Sawyer, Matthew J. Kauffman, and Jerod A. Merkle		
4:30 - 4:45 Thurs, 6th Movement Salon 4	Web Tools For Advancing Decision-Making In Wildlife Conservation And Management  <b>Shapiro</b> , Jessie S., Benjamin S. Robb, Shannon E. Albeke, and Jerod A.		

	Merkle
4:45 - 5:00 Thurs, 6th Movement Salon 4	Simple Solutions To Increase Wildlife Movement Across Highways <b>Dannahower</b> , Heather, Richard Knight, and Heather Knight
5:00 - 5:15 Thurs, 6th Movement Salon 4	Golden Eagle Wintering Strategies In The Western United States <b>Rouse</b> , Adrian, Rob Domenech, Ellen Aikens, and Bryan Bedrosian
5:15 - 5:30 Thurs, 6th Movement Salon 4	N/A
4:00 - 5:30 Thurs, 6th	<b>Private Lands Symposium and Discussion - Legends</b> Moderator: Ray Aberle
4:00 - 4:15 Thurs, 6th Private Lands Legends	A Case for Private Lands Conservation <b>Aberle</b> , Ray, and Emily Chavez
4:15 - 4:30 Thurs, 6th Private Lands Legends	Improved Fire Conditions and Quality Wildlife Habitat, Private Landowners Can Have It All! <b>Moffett</b> , Zoe
4:30 - 4:45 Thurs, 6th Private Lands Legends	The Platte River Domino Effect <b>Denton</b> , John
4:45 - 5:00 Thurs, 6th Private Lands Legends	Neighbors on the River: The Conejos River Restoration Project <b>Greenberg</b> , Anna
5:00 - 5:15 Thurs, 6th Private Lands Legends	It Starts with a Cup of Coffee <b>Mauk</b> , Kelsey
5:15 - 5:30 Thurs, 6th Private Lands Legends	Panel Q/A with presenters

6:00 - 9:00 Thurs, 6th	Banquet and Awards (cash bar) <i>Location: Salons 1 and 2</i>
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## Friday, March 7th

6:00 - 9:00 Fri, 7th	<b>Field Trip:</b> Birding the Fort Collins Area <i>Location: Atrium / Entrance</i>
9:15 - 1:30 Fri, 7th	<b>Field Trip:</b> National Black Footed Conservation Center <i>Location: Atrium / Entrance</i>