

# Conference Schedule

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## Monday, September 24

	7:45–17:00	Pre-Conference Workshop @ EBB 109 or UR 101 (see map on pg. 5) Breakfast & Lunch Provided @ Eccles Conference Center - 201/203
	18:30–20:30	Opening Reception @ Logan Golf and Country Club
	18:00–20:00	Registration @ Logan Golf and Country Club

## Tuesday, September 25 (08:00–12:00; Session Moderator: Dwayne Elmore)

	7:00	Registration — Eccles Conference Center: Registration Booth - 2nd Flr. (Main floor)
<b>Conference Commencement—Eccles Conference Center Auditorium - 216</b>		
Mike Fowlks	8:00	Welcome to Utah
Jason Robinson	8:05	Grouse of Utah
<b>Invited Plenary Speakers</b>		
Jack Connelly	8:25	Declining Populations and Habitat: What Have We Learned after 75 Years of Sage-Grouse Research?
John Carroll	8:45	From the Ground Up: The Grouse Group and International Conservation of Galliformes
<b>Anthropogenic Plenary Speaker</b> <i>Eccles Conference Center Auditorium - 216</i>		
Jeffrey Beck	9:05	Grouse Response to Human-Derived Impacts in the Anthropocene
<b>Anthropogenic—Session Talks</b> <i>Eccles Conference Center Auditorium - 216</i>		
Jonathan Dinkins	9:30	Factors Driving Greater Sage-Grouse Trends in the Eastern Portion of their Range: Anthropogenic, Fire, Habitat, Hunting, Ravens, and Weather
Peter Coates	9:45	Indirect and Direct Impacts of Geothermal Activity on Greater Sage-Grouse Populations and Using Spatially-Explicit Integrated Population Models for Energy and Conservation Planning
Michel Kohl	10:00	The Effects of Electric Power Lines on the Breeding Ecology of Greater Sage-Grouse
Break	10:15	ECC 2nd Floor Lobby (Main Floor)
Chad LeBeau	10:35	Greater Sage-Grouse Response to Two 230-kV Transmission Lines
Chad LeBeau	10:50	Greater Sage-Grouse Habitat Selection, Survival, and Wind Energy Infrastructure
Shawn O'Neil	11:05	Reduced Nest Success in Sage-Grouse is Associated with Increases in Raven Density and Occurrence in Nevada and California, USA
David Londe	11:20	Greater Prairie-Chicken Habitat Use in a Rangeland Managed with Prescribed Fire and Developed for Energy Development
Cody Griffin	11:35	A Range-Wide Assessment on the Influence of Anthropogenic Structure Dispersion and Land Cover Patch Size on Lesser Prairie-Chicken Lek Attendance
Lunch	11:50	ECC Rooms & South Lawn

## Tuesday, September 25 *cont.* (13:00–17:30; Session Moderator: Eric Thacker)

<b>Management Plenary Speaker</b> <i>Eccles Conference Center Auditorium - 216</i>		
David Baines	13:00	Managing the Famous Grouse—Knowing When Enough is Enough
<b>Management—Session Talks</b> <i>Eccles Conference Center Auditorium - 216</i>		
Megan Milligan	13:25	Effects of Rangeland Management on the Ecology of Sharp-Tailed Grouse in Mixed-Grass Prairies
Mandy Orth	13:40	Evaluation of Grassland Management Treatments to Improve Galliform Brood Habitat
Liza Rossi	13:55	Managing for Recovery of a Prairie Icon: The Future of Lesser Prairie-Chicken Management
Christian Hagen	14:10	Holy Cow! How Grazing Management Strategies Influence Lesser Prairie-Chicken Space Use and Demography
Chris Gulick	14:25	Spatial Patterns of Lesser Prairie-Chickens in Response to Different Disturbance Regimes
Bonnie Gibson	14:40	Captive Breeding and Raising of Prairie-Chickens for Release into the Wild, with Experimental Methodologies Potentially Applicable for Breeding Other Galliformes
Sian Whitehead	14:55	Disentangling the Roles of Heather Management and Predator Control in Restoring Black Grouse ( <i>Lyrurus tetrix</i> ) numbers in North Wales, UK
Break	15:10	ECC 2nd Floor Lobby (Main Floor)
Jo Inge Breisjøberget	15:30	Hunting Management of Red Listed Willow Ptarmigan on Public Land in Norway
Dorota Lawreszuk	15:45	Capercaillie ( <i>Tetrao urogallus</i> ) Conservation Program in the Augustowska Forest, Poland, 2013–2018
Jakob Leidekker	16:00	Reintroduction Black Grouse in the Hoge Veluwe NP
Philip Warren	16:15	Expanding the Range of Black Grouse ( <i>Lyrurus Tetrix</i> ) in Northern England—Can Wild Females be Successfully Translocated?
Andrew Olsen	16:30	Greater Sage-Grouse Response to Conifer Removal: Is Life Really Better After the Trees are Gone?
John Severson	16:45	Summary of Recent Studies on the Effects of Conifer Expansion and Removal on Sage-grouse
Kurt Smith	17:00	Sagebrush Treatments Influence Annual Population Change for Greater Sage-Grouse
Phillip Street	17:15	Greater Sage-Grouse Habitat and Demographic Response to Grazing by Non-Native Ungulates
Dinner	17:30	On Your Own

## Wednesday, September 26 (8:00–11:55; Session Moderator: David Dahlgren)

<b>Resource Selection Plenary Speaker</b> <i>Eccles Conference Center Auditorium - 216</i>		
	8:00	Welcome & Announcements
Larkin Powell	8:10	Inferring Selection of Resources: A Journey Through Time, Space, and Innovation
<b>Resource Selection—Session Talks</b> <i>Eccles Conference Center Auditorium - 216</i>		
Amy Seglund	8:35	Southern White-Tailed Ptarmigan ( <i>Lagopus leucura altipetens</i> ) Population Assessment and Conservation Considerations in Colorado
Kirstie Lawson	8:50	Habitat Selection by Dusky Grouse in Southern Interior British Columbia
David Dahlgren	9:05	Forest Grouse Research, Ecology, and Management in Western North America
Thomas Calton	9:20	Land Cover Change and Habitat Monitoring of Columbian Sharp-Tailed Grouse
Blake Grisham	9:35	Landscape Connectivity for Lesser Prairie-Chickens on the Southern High Plains of Texas and New Mexico
Daniel Sullins	9:50	Tradeoffs of Nest and Brood Habitat Availability for Lesser Prairie-Chickens
Break	10:05	ECC 2nd Floor Lobby (Main Floor)
Carly Aulicky	10:25	Testing the Hotspot Hypothesis: Lesser Prairie-Chickens Lek Formation and Female Space Use
Christian Hagen	10:40	Present or Absent? What Does Multi-Scale Occupancy Modelling Reveal About Conservation Needs of Lesser Prairie-Chicken?
Lindsey Parsons	10:55	Resource Selection of Greater Sage-Grouse During Brood Rearing on the Eastern Fringe
Julie Heinrichs	11:10	Planting and Restoring Functional Sagebrush Within Burns: Evaluating Habitat Selection Outcomes for Sage-Grouse
Aaron Pratt	11:25	Environmental Cues Used by Greater Sage-Grouse to Initiate Altitudinal Migration
Christopher Anthony	11:40	Thermal Environment of Greater Sage-Grouse ( <i>Centrocercus urophasianus</i> ) Nest Sites Following Wildfire
Lunch	11:55	ECC Rooms & South Lawn

## Wednesday, September 26 *cont.* (13:00–17:30; Session Moderator: Terry Messmer)

<b>Population Dynamics Plenary Speaker</b> <i>Eccles Conference Center Auditorium - 216</i>		
Erik Blomberg	13:15	Where Have We Been and Where are We Going? Grouse Population Ecology Past, Present, and Future
<b>Population Dynamics—Session Talks</b> <i>Eccles Conference Center Auditorium - 216</i>		
Ilse Storch	13:40	Is the Decline of Grouse in Central Europe Related to Landscapes Favoring Predators?
Jørund Rolstad	13:55	Determinants of Annual Breeding Success in Boreal Forest Grouse: Preliminary Results from a Long-Term Study of Capercaillie ( <i>Tetrao urogallus</i> ) and Black Grouse ( <i>T. tetrix</i> ) in Norway
Michael O'Donnell	14:10	Multi-Scaled Clustering Framework Using Graph Theory to Inform Long-Term Monitoring and Analyses of Greater Sage-Grouse Populations
David Edmunds	14:25	Population Viability Analysis for Greater Sage-Grouse: Considering Hierarchical Scales Across Management Areas and Lek Clusters
Emma Spence	14:40	Using Emerging Hotspot Analysis to Identify Sage-Grouse Source Sink Dynamics in Wyoming
Alixandra Godar	14:55	Rangewide Lesser Prairie-Chicken Population Persistence with Climate Change
Break	15:10	ECC 2nd Floor Lobby (Main Floor)
Samantha Davis	15:30	Survival and Harvest of Ruffed Grouse in Central Maine, USA
Joelle Mangelinckx	15:45	Reduced Female Survival During Reproduction in Ruffed Grouse
Kent Fricke	16:00	Trends in Estimated Abundance of the Greater Prairie-Chicken in Kansas and Oklahoma
Beth Ross	16:15	Using an Individual-Based Model to Assess Monitoring for Lesser Prairie-Chicken Population Growth Rates
Edward Oz Garton	16:30	Why is Carrying Capacity of Lesser Prairie Chicken Populations Declining Across the Southern Great Plains?
Andrew Gregory	16:45	HexSim: A Spatial IBM for Modeling Spatially Explicit Population Dynamics of Greater Prairie-Chicken Response to Fire Management in Kansas
Kristen Nasman	17:00	Range-Wide Abundance of Lesser Prairie-Chickens (2012-2018): Population Trend, Effect of Conservation Practices, and Comparison of Classical and Spatially Explicit Methods of Analysis
Adrian Monroe	17:15	Importance of Repeated Counts when Estimating Population Trends of Lekking Species with Dynamic N-Mixture Models
	18:30	<b>Poster Social</b> @ Logan Golf and Country Club (Load Buses by Military Science Building at 18:15). Heavy appetizers and drinks provided with tickets.

## Thursday, September 27 (7:00–18:00)

### **Conference Field Trip—East and West**

(See Conference Field Trip on pg. 64 for more information.)

**Load Buses at 7:00** in front of Military Science Building and Nelson Field House.

Lunch Provided.

## Friday, September 28 (8:00–17:00; Session Moderator: Michael Schroeder)

### **Grouse Ecology Plenary Speaker**

*Eccles Conference Center Auditorium - 216*

	8:00	Welcome & Announcements
Jennifer Forbey	8:10	Something Old, New, Borrowed and Overdue: Marrying Mechanism with Patterns to Advance Grouse Ecology
<b>Grouse Ecology—Session Talks</b>		
<i>Eccles Conference Center Auditorium - 216</i>		
Ólafur K Nielsen	8:35	Body Condition and Population Change of Rock Ptarmigan
Claude Novoa	8:50	Dispersal, Survival and Causes of Mortality of Juvenile Rock Ptarmigan ( <i>Lagopus muta</i> ) in Southern Europe
Atsushi Kobayashi	9:05	The Significance of Coprophagy in Chicks of Japanese Rock Ptarmigan
Gregory Wann	9:20	Evaluating Seasonal Weather and Density as Factors Regulating Populations of Alpine-Endemic White-tailed Ptarmigan in Colorado
Kristinn P Magnusson	9:35	The Genomes of Rock and Willow Ptarmigans
Cameron Aldridge	9:50	Characterizing Range-Wide Population Divergence White-Tailed Ptarmigan Using Genetic and Genomic Approaches
Break	10:05	ECC 2nd Floor Lobby (Main Floor)
Shawna Zimmerman	10:25	Functional Genetic Divergence Identified in Populations of Gunnison Sage-Grouse
Sara Oyler-McCance	10:40	Genomic Insights into Neutral and Adaptive Variation in Sage-Grouse: Implications for Ecology and Conservation
Michael Schroeder	10:55	Variation in the Display Behavior of Male Spruce Grouse
George Barrowclough	11:10	Phylogeographic Variation in the Spruce Grouse ( <i>Canachites canadensis</i> ) Complex Based on mtDNA and nuDNA Sequences
Charlotte Roy	11:25	Designing a Large-Scale Survey for Spruce Grouse in Minnesota
	11:40	<b>IGS 15 Presentation</b>
Lunch	11:55	ECC Rooms & South Lawn

## Friday, September 28 *cont.* (13:00–20:00; Session Moderator: Jeffrey Beck)

Elchin Sultanov	13:10	Modern State of Caucasian Black Grouse in Azerbaijan
Torstein Storaas	13:25	The Nest Survival Lottery
Sonja Ludwig	13:40	Factors Limiting the Recovery of Red Grouse ( <i>Lagopus lagopus scotica</i> ) on a Scottish Grouse Moor
David Baines	13:55	The Impacts of Respiratory Cryptosporidiosis on Red Grouse Population Dynamics: Are There too Many Grouse?
Todd Cross	14:10	The Genetic Network of Greater Sage-Grouse: Range-Wide Identification of Keystone Hubs of Connectivity
Gail Patricelli	14:25	Basic Science in the Conservation of Sage-Grouse: How Understanding Lekking Behavior Informs Management
Tessa Behnke	14:40	Physiological Responses to Grazing Pressure: Investigating Feather Corticosterone as a Measure of Stress Response in Greater Sage-Grouse
Break	14:55	ECC 2nd Floor Lobby (Main Floor)
Mark Ricca	15:15	Wildfire and Sage-Grouse in the Great Basin: Broad Scale Demographic Patterns, Mechanisms for Impacts, and Conservation Solutions
Gregory Wann	15:30	Ovulation Rates of Greater Sage-Grouse in North Park, Colorado
Lena Larsson	15:45	Experimenting with Methodologies for Releasing Captive Raised Greater Prairie-Chickens into the Wild
Liam Berigan	16:00	Role of Natal Habitat Preference Induction in Prairie-Grouse Translocation Success
John Toepfer	16:15	Greater Prairie Chicken ( <i>Tympanuchus cupido pinnatus</i> ) Production in Nebraska and Northwestern Minnesota, 2012-2016
Michael Morrow	16:30	Trials and Tribulations of Species Rescues: The Case of the Attwater's Prairie-Chicken
	18:30	<b>Banquet Dinner @ American West Heritage Center</b> (see map on pg. 5) Load Buses by Military Sciences and Nelson Field House at 18:00. Dress is nice casual—dress for a cool evening. Dinner will be outside under a covered pavilion.
Noppadol Paothong	19:30	Save the Last Dance and the Icon of the West