

FINAL AGENDA

Colorado Chapter of The Wildlife Society Annual Conference Pueblo Convention Center Pueblo, Colorado 29 January to 1 February, 2019



Tuesday, January 29, 2019 Pre-Conference workshop **SPACE AVAILABLE**

Community-based Social Marketing, a five step approach to motivating human behavioral change

*Presented by Doug McKenzie-Mohr
McKenzie-Mohr and Associates*

10:00 am – 5:00 pm. The one-day introductory workshop provides an introduction to community-based social marketing and how it is being applied to foster sustainable behavior in wildlife conservation. Participants learn the 5 steps of community-based social marketing.

Cost: \$100 for members, \$175 non-members



Wednesday, January 30, 2019 Workshop

Camera Trapping Workshop

Workshop Organizers: Nathan Seward and Chris Mettenbrink

9:00 am -12:00 pm Wildlife non-invasive sampling with camera traps in the field
*Nathan Seward, Colorado Parks and Wildlife
Kevin Blecha, Colorado Parks and Wildlife*

12:00 pm -1:00 pm Lunch provided at Pueblo Convention Center

1:00 pm – 5:00 pm Managing photographs and analyzing camera trap data
*Jake Ivan, Colorado Parks and Wildlife
Eric Odell, Colorado Parks and Wildlife
Eric Newkirk, Colorado Parks and Wildlife*

Cost: free with meeting registration (workshop limited to 25 people, must preregister)
Participants should bring a laptop with software downloaded and warm clothes for the field trip

Wednesday, January 30, 2019 Symposium **SPACE AVAILABLE**

Great Plains Wildlife Management

Symposium organizers: John Hughes and April Estep

8:30 am Welcome and Introductions

8:40 am An Update on Lesser Prairie-chicken reintroduction efforts in Colorado
Jonathan Reitz, Colorado Parks and Wildlife

- 9:00 am Development of pollinator habitat in eastern Colorado
Gerry Ohr, Double O Farms
- 9:20 am Use of fladry to deter coyote predation on black-footed ferrets
Rebecca Much, Colorado State University
- 9:40 am An update on sylvatic plague research and management in Colorado
Dan Tripp, Colorado Parks and Wildlife
- 10:00 am Break
- 10:30 am Swift fox occupancy surveys in eastern Colorado
Marty Stratman, Colorado Parks and Wildlife
- 10:50 am Cooperative CPW/NRCS/PF Landowner Assistance Programs in Colorado
Marina Osier, Natural Resources Conservation Service
- 11:10 am Bird Conservancy of the Rockies conservation efforts in the Great Plains
Adam Beh, Bird Conservancy of the Rockies
- 11:30 am Questions and discussion
- 12:00 pm Lunch provided at Pueblo Convention Center

Wednesday, January 30, 2019 Field Trip
Great Plains Wildlife Management

- 1:00 -5:00 pm Depart for field trip to Chico Basin Ranch (limited 25, must pre-register)

Wednesday, January 30, 2019 Workshop **SPACE AVAILABLE**
Writing into the Wild

Dr. John Hausdoerffer, School of Environment and Sustainability, Western Colorado University,
Dr. Gavin Van Horn, Director, Cultures of Conservation, The Center for Humans and Nature

1:00 pm – 5:00 pm

Workshop is free and open to all. Registration for this workshop is not necessary.

This workshop will engage participants in a sensory conversation with the wild worlds that flow around and through us. Gavin Van Horn and John Hausdoerffer, walking guides and co-editors of *Wildness: Relations of People and Place*, will lead the group through a series of invitations and writing prompts focused on slowing down, quieting overactive analytic minds, and deepening bodily attention to the wild landscape and other-than-human beings. The purpose of this workshop is to explore the relationship between inner and outer wilds, hone basic tools for attending to our senses, and make use of practical writing exercises that can awaken us to how our own stories are connected to place.

Wednesday January 30, 2019 **Opening Networking Event**
Celebration of Public Lands

Co-Sponsored by Backcountry Hunters and Anglers

6:00 – 10:00 pm



Featured Speaker: President Theodore Roosevelt – Conservation of wildlife and habitat on public lands (Presented by Joe Wiegand, 7 pm)

Colorado Chapter of The Wildlife Society Public lands Position Statement and Public lands testimonials

Backcountry Hunters and Anglers – public lands advocacy

Birds of Prey, Pueblo Raptor Center

Donated beer* and cash bar; Heavy appetizers

**Sponsored by Brues Alehouse, Pueblo, CO*



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Thursday January 31, 2019 **Plenary Session**

Graceful Transitions: Understanding factors that motivate human behavioral change to benefit wildlife conservation and communicating science to diverse stakeholders

Organizers: Patrick Magee, Tony Gurzick, and Andrew Don Carlos

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| 8:15 am | Welcome (Patrick Magee, President CCTWS) |
| 8:25 - 9:25 am | Keynote Address
Fostering sustainable behaviors using community-based social marketing
<i>Doug McKenzie-Mohr, McKenzie-Mohr and Associates</i> |
| 9:25 - 10:10 am | Keynote Address
Can wildlife science inform conservation in an era of science skepticism?
<i>Dr. Rick Knight, Colorado State University, Professor Emeritus of Wildlife Conservation</i> |
| 10:10 - 10:40 am | Overcoming communication barriers
<i>Michelle Roche, Social Impact Brand Advisor//Principal, Roche Brand Advisors</i> |
| 10:40 - 11:00 am | Break |

- 11:00 - 11:30 am Strategic communication
Lauren Truit, Public Information and Website Manager, Colorado Parks and Wildlife
- 11:30 am -12:00 pm Improving wildlife conservation outcomes from the inside out: Lessons learned from the National Wildlife Refuge System
Natalie Sexton, Human Dimensions Branch Chief, USFWS
- 12:00 - 1:30 pm Lunch and Business Meeting (all CCTWS members are invited, free lunch)**
- 1:30 pm Reconvene for afternoon session
- 1:40 - 2:00 pm Case Study 1: America’s wildlife values – the social context of wildlife management
Andrew Don Carlos, Research Associate, Human Dimensions of Natural Resources, Colorado State University
- 2:00 - 2:20 pm Case Study 2: “Make it last” campaign
Gary Thorson, Assistant Director, Information and Education Branch, Colorado Parks and Wildlife
- 2:20 - 2:40 pm Case Study 3: Applying a Community-Based Social Marketing Approach to Understand and Encourage Bear-Proofing Behavior
Stacy Lischka, Associate Conservation Scientist, Wildlife Conservation Society
- 2:40 - 3:00 pm Case study 4: Storyshed for wildness and biodiversity
John Hausdoerffer, Dean of School of Environment and Sustainability, Western Colorado University
Gavin Van Horn, Cultures of Conservation, The Center for Humans and Nature
- 3:00 - 3:25 pm Break
- 3:25 - 4:15 pm Panel: Graceful Transitions
Moderator: Andrew Don Carlos
Panel Committee – Andrew Don Carlos, Tony Gurzick, and Patrick Magee
Panelists:
Doug McKenzie-Mohr, McKenzie-Mohr and Associates
Rick Knight, Colorado State University, Professor Emeritus of Wildlife Conservation
Stacy Lischka, Associate Conservation Scientist, Wildlife Conservation Society
Natalie Sexton, Human Dimensions Branch Chief, USFWS
Gavin Van Horn, Cultures of Conservation, The Center for Humans and Nature

Thursday January 31, 2019

IGNITE Session

4:15 - 5:15 pm

Moderators: Marcella Tarantino and Aran Johnson, CCTWS Board members

New modeling tools to answer persistent snow-wildlife questions

Adele K. Reinking, Colorado State University

Glen E. Liston, Colorado State University

Stine Hojlund Pedersen, Colorado State University and University of Alaska – Anchorage

Kelly Elder, U. S. Forest Service Rocky Mountain Research Station

Monitoring for a management and conservation agenda

Jennifer Timmer, Bird Conservancy of the Rockies

Can long-distance movements by Greater Sage-Grouse inform management for populations?

Brett Walker, Colorado Parks and Wildlife

Brian Holmes, Colorado Parks and Wildlife

Liza Rossi, Colorado Parks and Wildlife

Michelle Cowardin, Colorado Parks and Wildlife

Gunnison Sage-Grouse – Life Beyond the Lawsuit

Kathy Griffin, Colorado Parks and Wildlife

Gray Wolf breeding ties observed in Yellowstone National Park

Lizzie Cato, Yellowstone Wolf Project

Rick McIntyre, Yellowstone Wolf Project (retired)

Kira Cassidy, Yellowstone Wolf Project

Doug Smith, Yellowstone Wolf Project

Dan Stahler, Yellowstone Wolf Project

Erin Stahler, Yellowstone Wolf Project

The Cheatbeer Society

Patrick Magee!, Western Colorado University

Ek a bat! Using a One Health approach to communicate about wildlife disease

Michelle Verant, National Park Service Biological Resources Division

Danielle Buttke, National Park Service Biological Resources Division

Colorado Chapter of The Wildlife Society Awards: A five minute history

Michelle Cowardin, Colorado Parks and Wildlife

Thursday January 31, 2019

Poster Session, Reception, Banquet, Auction, Awards

5:30 - 6:30 pm

Reception and Poster Session
Donated beer and cash bar



The lymphocytes of Mojave desert tortoises may offer novel insights into immune function

Summer Adelbush, Colorado State University – Pueblo *Student, graduate

Franziska C. Sandmeier, Colorado State University – Pueblo

Max, Sheedy, Colorado State University – Pueblo

The impact of stressors on fitness and conservation behavior in Black-tailed prairie dogs

Stephanie L. Dudley, Colorado State University – Pueblo *Student, undergraduate

Chloe L. Weiter, Colorado State University – Pueblo *Student, undergraduate

Rhett Cuttrell, Fornever Productions, Denver CO

Clark D. Jones, U. S. Fish and Wildlife Service

Elizabeth K. Peterson, Colorado State University – Pueblo

Testing the effect of the black-tailed prairie dog on herpetological biodiversity at the Pueblo Chemical Depot

Morgan Kester, Colorado State University – Pueblo *Student, undergraduate

Delania Klinger, Colorado State University – Pueblo

Jason Fender, Colorado State University – Pueblo

Jacob Aragon, Colorado State University – Pueblo

Elizabeth K. Peterson, Colorado State University – Pueblo

Clark D. Jones, U. S. Fish and Wildlife Service

Claire W. V. Ramos, Colorado State University – Pueblo

Franziska Sandmeier, Colorado State University – Pueblo

Boom and bust cycles of black-tailed prairie dog populations in the Thunder Basin National Grassland, Wyoming

Hannah Jacobsen, Colorado State University

David Augustine, USDA Agricultural Research Service

Ana Davidson, Colorado Natural Heritage Program

Gwyn McKee, Great Plains Wildlife Consulting, Inc.

Dave Pellatz, Thunder Basin Grasslands Prairie Ecosystem Association

Lauren Porensky, USDA Agricultural Research Service

Correlation between vegetation characteristics and Cassin's Sparrow density

N. M. Kauffman, Colorado State University – Pueblo *Student, undergraduate

Claire W. V. Ramos, Colorado State University – Pueblo

Clark D. Jones, U. S. Fish and Wildlife Service

Effects of prairie dog colony activity on small mammal diversity and abundance
Adam Liao & Jason Fender, Colorado State University – Pueblo *Student, undergraduate

Clark D. Jones, U. S. Fish and Wildlife Service

Franziska C. Sandmeier, Colorado State University – Pueblo

Elizabeth K. Peterson, Colorado State University – Pueblo

Claire W. V. Ramos, Colorado State University – Pueblo

Do tortoises have immunological memory?

Kiara Olson, Colorado State University – Pueblo *Student, undergraduate

Franziska C. Sandmeier, Colorado State University – Pueblo

The effects of anthropogenic lead on biomagnification in the food chain at the Pueblo Superfund Site

Teyah Schiffer, Colorado State University – Pueblo *Student, undergraduate

Sean Kyle Staples, Colorado State University – Pueblo

Clair W. V. Ramos, Colorado State University – Pueblo

James Carsella, Colorado State University – Pueblo

Moussa Diawara, Colorado State University – Pueblo

Elizabeth K. Peterson, Colorado State University – Pueblo

*Assessment of feeding habits and summer diet of *Oreamnos americanus**

Michael Serracino, Colorado State University – Pueblo *Student, undergraduate

Rocky L. Spencer, Colorado State University – Pueblo

Brian Vanden Heuvel, Colorado State University – Pueblo

What's all the buzz about? Human behavioral changes and Prairie Rattlesnakes at an urban park

Bryon K. Shipley, Adaptation Environmental Services

Joseph C. Ehrenberger, Adaptation Environmental Services

Mary Ann Bonnell, Jefferson County Open Space

Andrew M. DuBois, Jefferson County Open Space

*Interspecific transmission of *Protostrongylus* spp. between mountain goats and bighorn sheep*

Rocky L. Spencer, Colorado State university – Pueblo *Student, undergraduate

Michael J. Serracino, Colorado State university – Pueblo

Claire W. V. Ramos, Colorado State university – Pueblo

Gerald W. Esch, Wake Forest University

Brian Vanden Heuvel, Colorado State university – Pueblo

6:30 - 10:00 pm

Banquet, awards and auction

Featuring Keynote Banquet Speaker (8 pm)

Land of the Free

Dr. George Wallace, Colorado State University, Professor Emeritus of Human Dimensions of Natural Resources and Founder of the Center for Protected Area Management and Training

Friday February 1, 2019

Contributed Papers Session

- 8:15 am - 12:00 pm Contributed papers
Moderators: Marcella Tarantino and Aran Johnson, CCTWS Board members
- 8:15 – 8:20 am *Announcements* – Jesse McCarty, CCTWS President
- 8:20 – 8:40 am *NOT a good friend of mine: collaborative bullfrog management along Colorado's Front Range*
Will Keeley, City of Boulder Open Space and Mountain Parks
Kelly Triece, Adaptation Environmental Services
Ryan Prioreshi, City of Boulder Open Space and Mountain Parks
Chelsea Bebee, Jefferson County Open Space
Andrew Dubois, Jefferson County Open Space
Joseph Ehrenberger, Adaptation Environmental Services
Mac Kobza, Boulder County Parks and Open Space
- 8:40 - 9:00 am *Current status and distribution of Columbian sharp-tailed grouse (Tympanuchus phasianellus columbianus) in Colorado – a story of recent natural and human-mediated range recolonization*
Brian Holmes, Colorado Parks and Wildlife
Michelle Cowardin, Colorado Parks and Wildlife
Jeff Yost, Colorado Parks and Wildlife
- 9:00 – 9:20 am *Ponderosa pine forest restoration can benefit avian communities*
Quresh Latif, Bird Conservancy of the Rockies
David Pavlacky, Bird Conservancy of the Rockies
Richard Truex, U.S. Forest Service
- 9:20 – 9:40 am *Survival rates and causes of mortality among pre-breeding age Golden Eagles in Northern and Southern High Plains*
Dale W. Stahlecker, Eagle Environmental, Inc.
Brian W. Smith, U. S. Fish and Wildlife Service
Robert K. Murphy, U. S. Fish and Wildlife Service
Clint W. Boal, Texas Tech University
Angela M. Dwyer, Bird Conservancy of the Rockies
Joel G. Jorgensen, Nebraska Game and Parks Commission
- 9:40-10:00 am *Quantitative characterization of deer mouse (Peromyscus maniculatus) populations in arid sage-steppe habitat of the Gunnison Basin*
Taylor Stack* and Patrick Magee, Western Colorado University*Student, undergraduate
- 10:00 – 10:20 am Break**
- 10:20 – 10:40 am *Is there a correlation between blood mercury level and West Nile Virus antibodies in Eastern Bluebirds?*
Claire W. V. Ramos, Colorado State University – Pueblo
Alyssa Torres, Colorado State University – Pueblo

Jordan Steel, United States Air Force Academy
Daniel Cristol, The College of William and Mary

- 10:40 – 11:00 am *A quantitative PCR assay for the potential turtle pathogen “emydid Mycoplasma” indicates high prevalence in healthy box turtles*
Franziska C. Sandmeier, Colorado State University-Pueblo
Rachel Ruiz, Colorado State University-Pueblo
Kendra Leonard, Colorado State University-Pueblo
Brandon Bayer, Colorado State University-Pueblo
Connor Dowd, Colorado State University-Pueblo
Taylor Urban, Colorado State University-Pueblo
- 11:00 – 11:20 am *Patterns of occupancy and migratory movements of burrowing owls at the Pueblo Chemical Depot*
Clark D. Jones, U.S. Fish and Wildlife Service, Pueblo Chemical Depot
Courtney J. Conway, U.S. Geological Survey - Idaho Cooperative Fish and Wildlife Research Unit
Jessica L. Gorski, Colorado State University – Pueblo
Claire W. Varian-Ramos, Colorado State University – Pueblo
- 11:20 am – 11:40 pm *Tracking changes in chronic wasting disease in elk at Rocky Mountain National Park*
Nathan L. Galloway, National Park Service Biological Resources Division
Jenny G. Powers, National Park Service Biological Resources Division
Ryan J. Monello, National Park Service Inventory and Monitoring Program
Margaret A. Wild, Washington State University
- 11:40 am – 12:00 pm *The complexity of using biological prioritization for land acquisition in the National Wildlife Refuge System*
Mindy B. Rice, U.S. Fish and Wildlife Service
Keenan Adams, U.S. Fish and Wildlife Service
Ken Fowler, U.S. Fish and Wildlife Service
- 12:00 pm Student poster and paper awards, photo contest winner
- 12:10 pm Conference concludes
- 12:40 pm CCTWS Board Meeting, Brues Alehouse

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