



WILDLIFE TRACKS

*The Quarterly Newsletter of the
Colorado Chapter of The Wildlife Society*

Winter 2019



Chapter Officers

President:

Jesse McCarty

Past President:

Pat Magee

President Elect:

Nathan Galloway

Treasurer:

Nate Seward

Secretary:

Mark Fletcher

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President's Column

Dear Members and Colleagues,

I believe this will be my last column as President of CCTWS. I wanted to share with you my deep affection for you all and my appreciation for the opportunity to serve as President.

This year the CCTWS Board have taken actions to ensure our Chapter is more financially secure now and in the future by investing \$47,000. These funds came from the Candice Taylor Colorado Wildlife fund and Jim Olterman Scholarship fund raising efforts to affect our chapter for years to come. The CCTWS Board is excited to spread this success of this investment in the years to come.

I am also grateful to the CCTWS members who have served on the Board. Many of these members have served for many years and others are new and excited. These awesome people provide a blend of consistency, competency, and dedicated sacrifice of time and energy to serve our society. What a truly remarkable group of people. I want to say my special thanks for your attention to detail, great ideas, and continued effort to make our society a vibrant source of professional development for all members.

We will always need new Board members to continue the excellent that we are known for nationally. Please reach out and ask someone you appreciate to serve on the Board! Thanks to those who have stepped up to serve in the next year. See the bios of all the candidates later in this newsletter and please participate in our electronic elections in January.

**The early bird registration deadline for the
CCTWS annual meeting is December 20!**

2020 Annual Conference in Ft Collins!

While my term as President is coming to an end, there is still a lot to do and much to look forward to as we close in on the 2020 Annual Meeting. This year we are heading to northern Colorado as we traditionally move around the state to balance presence of our special event. Meeting events occur at the Ft Collins Hilton from February 5-7, 2020. Please also reserve your hotel room at the Hilton before January 15 when the \$103 room rate expires. Be sure to mention attending the Colorado Chapter of The Wildlife Society Annual Meeting!!

For annual conference details including registration and hotel reservations, check out the CCTWS web page: <http://wildlife.org/colorado/meetings/annual-meeting/>

“Do you hear what I hear?” – Emergent Challenges and Opportunities in the Field of Wildlife Management

At the 2020 CCTWS Annual Meeting our plenary session will address challenges and opportunities of emergent technologies (such as GIS, GPS, bioacoustic methods, genetic techniques) and emergent wildlife issues (such as wildlife disease, climate change, and wildfire). In addition, we will have three workshops, a symposium, an IGNITE session, a poster session, a photo contest, a contributed papers session, a networking event, and our annual banquet with professional awards and a wildlife auction.

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Grants for you!

Please see the details provided in this newsletter for our travel grants program. CCTWS travel grants program can assist members with travel costs associated with attending meeting or workshops that further their professional knowledge and benefit management and conservation of wildlife in Colorado. Spring/Summer travel grants are due by February 1, 2020.

Also see details on our website: <http://wildlife.org/colorado/small-grants/>



Our annual meeting features three very interesting workshops and a symposium on Wednesday February 5th. On Wednesday night, we kick-off the conference with our annual networking social co-sponsored by Backcountry Hunters and Anglers, an organization that has advocated tirelessly for public lands. This event will celebrate public lands and will provide lots of space to connect with speakers, friends old and new, and network.

Following Thursday's plenary session, we'll enjoy a series of 5-minute IGNITE talks (be sure to submit an abstract to share your innovative idea), a poster session and reception, and we'll wrap up the night with our Annual Banquet. We'll have a silent auction (let us know if

you have items you'd like to donate) and our awards ceremony (please take time to nominate a colleague for a well-deserved award). The conference wraps up with contributed talks on Friday morning. Please submit an abstract and share your latest work. Deadline for abstract submission is December 18!

See the agenda later in this newsletter and find all the details for the annual conference at our website. <http://wildlife.org/colorado/meetings/annual-meeting/>

I gratefully recognize our current annual meeting sponsors and thank them for their support: Lotek, Wildlife Acoustics, Vectronics, Robin Olterman, Backcountry Hunters and Anglers, and Bayer.

Nominate a colleague

Please see the call for award nominations later in this newsletter and find more details on our webpage (<http://wildlife.org/colorado/awards/>). One of the wonderful things our society does is honor our members for their hard work, service, contributions, and excellence. Who do you know that deserves to be recognized? Please take time to submit a nomination.

Our future

My final paragraph focuses on the relevancy of this chapter to all of you and the next generation to fill your shoes. The Colorado Chapter hosts over 422 members as of June 2019. No other chapter in our section has more than 195 members (WY), thus we are the largest impact by far! Member and friends have and will continue to make this Chapter what it is. Chapter activities bring us closer, drive our networks to expand far beyond what we can do ourselves, collectively amplify our voice in speaking for wildlife, and impact so many species is ways that many in our recent past may find unbelievable. This Chapter has increased potential for students and new professionals to experience new sciences, management techniques, and develop skills that normally would take years to grow. There is very real space for seasoned wildlife folks to pass on wisdom in highly respected ways were neophytes eagerly seek out sage advice.

Advice or guidance can be challenging. During a TWS event, a graduate student once asked me what I thought of service. I responded with, "Have you ever served something greater than yourself?" I am grateful for being invited to serve in CCTWS where I, and many others like me, participate and grow in the relationships with others of like heart yet differing perspectives. This place of service is often what is missing when one doesn't feel satisfied with the work one has done. If you have not been invited participate, consider this my invitation to you. Please, join us in conserving wildlife through service to others.

I hope to see all of you in Ft Collins at the beginning of February! Have a wonderful holiday season!

Jesse McCarty (425-315-2444)
President, Colorado Chapter of the Wildlife Society

Treasurer's Report

CCTWS Treasurer's Report

Checking = \$9,326.77 (operating fund)

Savings = \$508.83 (operating fund)

Money Market Savings = \$35,711.06 (reserve)

Edward Jones Investment for Jim Olterman scholarship = \$47,559.96 as of 12/3/19

Total assets = \$93,106.62

Recent transactions include: a credit of \$380.00 from TWS for membership renewals, a credit of \$545 from Robin Olterman for JO Scholarship, a debit of \$258 for new Rtic cooler for fund-raising, a debit of \$1000 for small research grant to Ellie Orr for Great Blue Heron Rookery, and a debit of \$95.00 for Associate Wildlife Biologist certification. All of these have been accounted for in the current balances.

CCTWS Meeting Minutes

CCTWS Meeting Minutes

To reduce the overall volume of the newsletter we will not be including minutes from our monthly board meetings. CCTWS members who would like to review board meeting minutes are encouraged to visit our website:

<http://wildlife.org/colorado/meetings/>

Annual Meeting

Save The Date

Colorado Chapter of the Wildlife Society



Annual Meeting

Hilton Hotel
Fort Collins, Colorado

February 5th-7th, 2020



2020 Meeting Theme

“Do you hear what I hear?” – Emergent Challenges and Opportunities in the Field of Wildlife Management

At the 2020 CCTWS Annual Meeting our plenary session will address challenges and opportunities of emergent technologies (such as GIS, GPS, bioacoustic methods, genetic techniques) and emergent wildlife issues (such as wildlife disease, climate change, and wildlife funding innovations). In addition, we will have two workshops, an IGNITE session, a poster session, a photo contest, a contributed papers session, a networking event, and our annual banquet with professional awards and a wildlife auction. Be sure to save the dates and look for updates on lodging and registration details in the upcoming newsletter and on our webpage.

Wednesday, February 5, 2020

Workshop: Camera Trapping

Workshop Organizer: Nate Seward

This workshop will require a fee with meeting registration (workshop limited to 25 people, must preregister). A laptop with Microsoft Access 2007 or newer is required for this workshop.

8:00-10:00 Benefits of camera traps for wildlife monitoring and how to organize and manage photos in CPW's Photo Database

Jake Ivan, Colorado Parks and Wildlife

10:00-10:15 Break

10:15-12:00 Managing photographs and analyzing camera trap data: Focus on MS Access database

Jake Ivan, Colorado Parks and Wildlife

Eric Odell, Colorado Parks and Wildlife

Eric Newkirk, Colorado Parks and Wildlife

Wednesday, February 5, 2020

Workshop: Bat Bioacoustics

Workshop Organizer: Matt Rustand

This workshop is free and open to all.

8:00 am Introduction – *Matt Rustand, CCTWS/Bureau of Land Management*

Annual Meeting

What is bat acoustic monitoring

- 8:10-8:40 Bat Acoustics—What it is and is not—*Dan Neubaum, Colorado Parks and Wildlife*
8:40-9:10 How it works—*Jeremy Siemers, Colorado Natural Heritage Program*

Examples of how acoustic data can be used

- 9:10-9:25 Colorado National Monument Project – *Dan Neubaum, Colorado Parks and Wildlife*
9:25-9:40 State monitoring program – *Tina Jackson, Colorado Parks and Wildlife*
9:40-10:00 Rocky Mountain National Park Project – *Jeremy Siemers, Colorado Natural Heritage Program*
10:00-10:15 Break
10:15-10:30 NABat – *Brian Reichert, U.S. Geological Survey*
10:30-11:40 Equipment Demonstrations

Three stations will be available to get hands on experience with a selection of the different set ups available. Presenters will walk through the equipment and discuss pros and cons of each. Groups will rotate every 20 minutes.

- Wildlife Acoustics
- Pettersen – *Jeremy Siemers, Colorado Natural Heritage Program*
- Anabat – *Dane Smith, U.S. Geological Survey*

11:40-12:00 Q and A between workshop participants and presenters.

12:00-1:00 Break for lunch (lunch not provided)

Wednesday, February 5, 2020

Workshop: Wildlife Acoustics Equipment and Software

Organizer: Wildlife Acoustics

1:00-5:00 Hands-on training

Please join Wildlife Acoustics for a hands-on training session in bat bioacoustics tools. This is a rare training opportunity for researchers just starting or already involved in using acoustics to monitor bats. During this comprehensive session, Wildlife Acoustics' staff will host a hands-on workshop to teach participants the features and set up of the Song Meter SM4BAT, Song Meter Mini Bat and Echo Meter Touch 2. Participants will also learn how Kaleidoscope Pro can be used to process large and small datasets to produce quantifiable outputs.

Wednesday, February 5, 2020

Symposium: Wildlife Disease

Organizer: John Hughes

- 1:00 Welcome and introductions – *John Hughes, CCTWS*
1:10-1:30 One Health and the National Park Service Wildlife Health Branch – An Overview
Dr. Danielle Buttke, National Park Service
1:30-1:50 Recent developments in the management of sylvatic plague – *Dan Tripp, Colorado Parks and Wildlife*
1:50-2:10 Chronic wasting disease monitoring in Colorado – *Dr. Mike Miller, Colorado Parks and Wildlife*
2:10-2:30 Management of white-nose syndrome in bats – *Kim Dickerson, U.S. Fish and Wildlife Service*

Annual Meeting

- 2:30-3:00 Break
- 3:00-3:20 Population level effects of chytrid fungus for amphibians in Colorado – *Dr. Timothy Korpita, Colorado State University*
- 3:20-3:40 Status of West Nile Virus in Colorado – *Dr. Nick Komar, Centers for Disease Control*
- 3:40-4:00 New developments in the management of disease in free-ranging bighorn sheep populations in Colorado – *Dr. Karen Fox, Colorado Parks and Wildlife*
- 4:00-4:20 Genome-wide Association Analyses reveal differential response of feral swine to enzootic pathogens - *Dr. Timothy Smyser, USDA APHIS National Wildlife Research Center*
- 4:20-4:50 Roundtable – wildlife diseases dynamics in the face of climate change (all speakers)
- 4:50-5:00 Closing remarks

Wednesday, February 5, 2020 Internal Meetings

- 1:00-5:00 USFWS Colorado Partners for Fish and Wildlife Program meeting
USFS Wildlife Biologist meeting

Wednesday, February 5, 2020 Opening Networking reception

Organizers: Nathan Galloway and Andrew Don Carlos

Co-Sponsored by Backcountry Hunters and Anglers

- 6:00-9:00 Location TBD, donated beer and cash bar, heavy appetizers

Thursday, February 6, 2020 Student Networking Breakfast

- 7:00-8:00 Invite only, location TBD

Students who are interested in attending should contact their local student chapter president. **Professionals: if you are interested in helping with this event or mentoring future wildlife biologists please contact Katie Grey.** Contact info can be found on CCTWS website.

Thursday, February 6, 2020 Wildlife Photo Contest

Organizer: Marcella Tarantino

Bring up to three of your best photos to display at the conference. Photos will be judged by popular vote in the following categories: 1. Amphibians, Reptiles, and Fish; 2. Birds; 3. Invertebrates; 4. Mammals; 5. Game Camera; 6. Human Dimensions; 7. Landscapes and Still Life (including flora); and 8. Creative/Comedic. Prizes will be awarded in each category. See CCTWS website for details: <https://wildlife.org/colorado/meetings/annual-meeting/#PHOTO%20CONTEST>

Thursday, February 6, 2020 Plenary Session: Emerging Topics in Wildlife Conservation

Organizers: Marcella Tarantino and Jesse McCarty

- 8:00 am Welcome and introductions – *Jesse McCarty, President CCTWS*

- 8:10-8:50 Overview of emerging wildlife issues in 21st century - *Bill Gains, Conservation Science Institute*

Annual Meeting

- 8:50-9:10 Climate Change – *David Inouye, Rocky Mountain Biological Laboratory*
9:10-9:30 Wildfire – *Brian Logan, U.S. Forest Service*
9:30-9:50 Avian beetle outbreak impacts – *Quresh Latif, Bird Conservancy of the Rockies*
9:50-10:20 Panel Discussion Q&A
10:20-10:40 BREAK
10:40-11:00 Disease – *Erik Hofmeister, U.S. Geological Survey*
11:00-11:20 Invasive Species Impacts (cheatgrass) – *Derek Sebastian, Bayer*
11:20-11:40 Wildlife Corridors/Migration
11:40-12:00 Panel Discussion Q&A
12:00-12:05 President's closing remarks

12:05-1:45 Business meeting and lunch for all members

Thursday, February 6, 2020 Emerging Wildlife Technologies and Solutions

Organizers: Marcella Tarantino and Jesse McCarty

- 1:45 Welcome and introductions – *Jesse McCarty, President CCTWS*
- 1:50-2:50 Human/Wildlife Conflict – Panel
Moderator – *Chris Parmeter, DWM Colorado Parks and Wildlife*
- Human-Wildlife Conflicts in Metropolitan Colorado – Cassidy English, DWM Colorado Parks and Wildlife*
- Human-Wildlife Conflicts in Colorado's Resort Communities – Elissa Knox, DWM Colorado Parks and Wildlife*
- Human-Wildlife Conflicts in Rural Colorado – Lucas Martin, DWM Colorado Parks and Wildlife*
- 2:50-3:10 Collar-Based Biologging – *Dr. George Wittemyer, Colorado State University*
- 3:10-3:30 Drones/UAVs – *Dr. David Bird*
- 3:30-3:50 UAV-RT Software – *Michael Shafer, Northern Arizona University*
- 3:50-4:10 Telemetry – *Michael Crawford, LOTEK*
- 4:10-4:15 President's closing remarks

Thursday, February 6, 2020 IGNITE Session

Organizers: Marcella Tarantino and Aran Johnson

- 4:20-5:15 IGNITE session

Annual Meeting

Thursday, February 6, 2020

Poster Session, Reception, Banquet, Auction, Awards

Organizers: Marcella Tarantino and Aran Johnson

5:15-6:15 Reception and Poster Session

6:30-10:00 Banquet, awards, and auction

Friday, February 7, 2020 **Contributed Papers Session**

Organizers: Marcella Tarantino and Aran Johnson

8:30-12:00 Contributed papers

11:50-12:00 Student poster and paper awards

12:00 Conference concludes

12:30 CCTWS Board Meeting

Thanks to all our sponsors!



Lotek
advancing wildlife science



Annual Meeting

BAT BIOACOUSTICS WORKSHOP @ THE 2020 CCTWS ANNUAL MEETING

Please join Wildlife Acoustics for a hands-on training session in bat bioacoustics tools. This is a rare training opportunity for researchers just starting or already involved in using acoustics to monitor bats. During this comprehensive session, Wildlife Acoustics' staff will host a hands-on workshop to teach participants the features and set up of the Song Meter SM4BAT, Song Meter Mini Bat and Echo Meter Touch 2. Participants will also learn how Kaleidoscope Pro can be used to process large and small datasets to produce quantifiable outputs. Please register for this event on the meeting registration webpage.



Annual Meeting

STUDENT NETWORKING EVENT 2020 MEETING

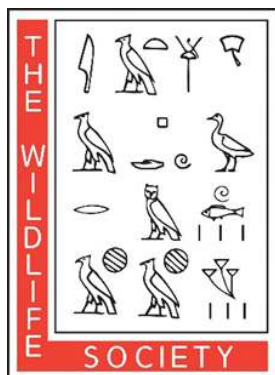


One of the greatest aspects of the TWS Colorado Chapter is the level of involvement from the student chapters – it's always great to see them at our annual meetings! We all know that networking with professionals is essential to the future careers of the students we support. We also know that it can be intimidating to be a student in a room full of experienced wildlife professionals. That's why at the annual meeting in February 2020, we'll be hosting a networking event outside of the usual meeting schedule. Our hope is that students will be able to meet professionals and "break the ice" so that they feel comfortable asking more questions for the rest of the meeting.

Specific plans are still in the works, but if this sounds like something you'd be interested in participating in please contact Katie Gray at katie.gray@state.co.us for more information!



Call For Abstracts



Call for Abstracts

Presentations, Posters, and IGNITE
The Colorado Chapter of The Wildlife Society
Annual Meeting: February 5th – 7th, 2020
Fort Collins, Colorado

We invite you to present an oral presentation (traditional format) or poster on the topics of wildlife research, ecology, management, conservation, education, or policy at the 2020 annual meeting of the Colorado Chapter of The Wildlife Society. All topics are welcome, and we strongly encourage students to present. All student presentations will be considered for the “best presentation” and “best poster” awards, which include a gift certificate and recognition at the end of the conference.

Traditional oral presentations: 20 minutes allotted for each presentation (15-18 minutes for presentations followed by 2-5 minutes for questions and answers). Oral presentations are limited to Microsoft PowerPoint or Adobe PDFs. No other formats will be accepted. Presentations must be uploaded at the beginning of the session in which you will present.

Poster presentations: maximum dimensions are 4 feet by 4 feet in size. Easels will be provided. At this year’s conference, we will schedule a formal poster session before the banquet, allowing presenters more time to discuss their work with conference participants. Attendance at the poster session is required for presenters.

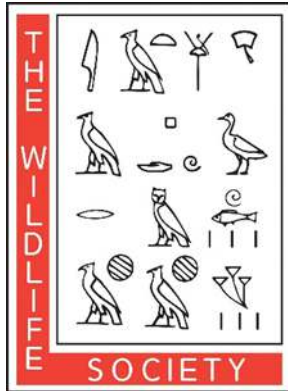
IGNITE presentations: These “To the Point” sessions have been an exciting new staple in recent conferences, and provide a great platform for members to quickly share updates and information that don’t require a full 20-minute presentation. Ignite-style talks include automated slide progression condensing the talk to 5 minutes! Talks can be funny, inspirational, or informative, but should all strive to be engaging and entertaining. Please see additional formatting information below if you are interested in an IGNITE presentation.

Abstract submission deadline: Sunday, December 15, 2019

Options for submitting abstract:

1. Submit abstracts as Microsoft Word attachment to Marcella Tarantino at Marcella.Tarantino@co.usda.gov.
Provide all the required information in one Word document, or use fillable PDF.
Provide the presentation title, author name(s), author affiliation(s), presenter address, and presenter e-mail. Be sure to indicate which author is presenting at the meeting, and indicate if the presenter is a student.
2. Download, complete, and submit the fillable Abstract Submission PDF available at the CCTWS meeting website.

Ignite-Style Sessions



IGNITE-STYLE SESSION:

Format and Additional Details

**The Colorado Chapter of The Wildlife Society
Annual Meeting: February 5th – 7th, 2020
Fort Collins, Colorado**



Are you currently involved in creative new research?

Do you have an interesting case study to share?

Do you have a passion for a new perspective or methodology in wildlife management or conservation?

Ignite-Style Presentations: These “To the Point” sessions have been an exciting new staple in recent conferences, and provide a great platform for members to quickly share updates and information that don’t require a full 20-minute presentation. Ignite-style talks include automated slide progression condensing the talk to 5 minutes! Talks can be funny, inspirational, or informative, but should all strive to be engaging and entertaining. Please see additional formatting information below if you are interested in an IGNITE presentation.

Presentation Guidelines:

20 slides – no more, no less

5 minutes – each slide displays for 15 sec. (15 sec. x 20 slides = 5 min)

Submission Information:

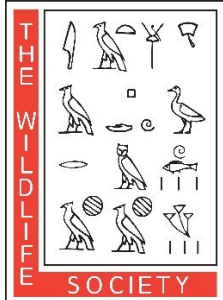
To be considered for an Ignite-Style Talk slot, please submit the standard abstract submission form to Marcella Tarantino at Marcella.Tarantino@co.usda.gov by December 15, 2019.

For Additional information about Ignite-Style Talks:

- Tips: <https://www.nasmm.org/nl/tips-to-ignite.pdf> or <https://scottberkun.com/2009/how-to-give-a-great-ignite-talk/> or <https://robbiesenbach.com/deliver-successful-ignite-talk/>
- Want to see some example Ignite presentations? Go here: <http://www.ignitetalks.io/videos>
- Keep it simple: use relevant images and a few key words to capture the main idea
- Bullets and text: avoid using lots of text. If necessary, use brief 1-3 word statements
- Timing: slides advance every 15 seconds, so avoid cramming too many topics or ideas into one slide. Instead, give yourself breathing room by spacing ideas and topics across multiple slides. You have 20 slides, so don’t be afraid to use them. Keep your ideas broad and figures simple.
- Final suggestion slide: we highly recommend that your last slide be a “Next Steps” or Call to Action

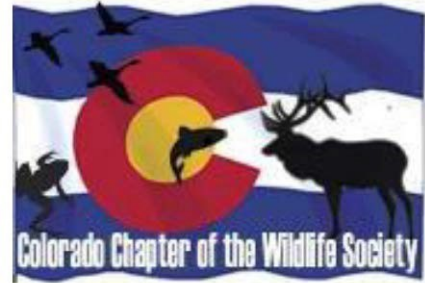
Abstract Submission Form

Colorado Chapter of The Wildlife Society



Abstract Submission Form

Please fill in all of the information for your abstract to be considered. You may create and use your own form, but please be sure to include all of the following information. Please denote author affiliations with superscript numbers.



Author Information		
Presenter:		
Affiliation:		
Is the presenter a student?	Yes No	Graduate Undergraduate
Mailing Address:		
Telephone Number:		
E-mail Address:		

Presentation Preferences	
Please check the box to the right indicating what kind of presentation you would like to give. See the official call for abstracts for details about each type of presentation.	Traditional presentation (20 minutes)
	Ignite presentation (5 minutes)
	Poster

Abstract Submission Form

Abstract
Title:
Authors:
Affiliations:
Abstract (250 words or less):

Photography Contest



Photography Contest

The Colorado Chapter of The Wildlife Society
Annual Meeting: **February 5th – 7th, 2020**
Fort Collins, Colorado

We invite you to submit a photograph at the 2020 annual meeting of the Colorado Chapter of The Wildlife Society, to be judged by popular vote. Photographs can be from work or recreation, and categories include Amphibians, Reptiles, and Fish; Birds; Invertebrates; Mammals; Game Camera; Human Dimensions; Landscapes and Still Life (including flora); and Creative/Comedic. Each conference attendee may submit up to three photographs and there is no fee to submit a photograph. Winners will receive a prize.

To submit a photograph, please print your photograph in an 8 x 10" format and drop it off at the registration table when you check in for the conference and bring a submission form. Label the back of the photograph with the following information: category, photograph title, entrant's name, phone number, and e-mail. Photographs cannot be framed or displayed on a mat board. Please also send a digital copy to Marcella Tarantino at Marcella.Tarantino@co.usda.gov and provide the following information with your submission.

Photographer	
Photographer's contact information	E-mail address: Phone number: Physical address:
Photograph Information	Title: Genus/Species: Description: Is photo edited?:
Category	Amphibians, Reptiles, and Fish Birds Invertebrates Mammals Game Camera Human Dimensions Landscapes and Still Life (including flora) Creative/Comedic
Other information	Is subject a captive animal or cultivated plant? <input type="checkbox"/> Yes <input type="checkbox"/> No Does photograph adhere to ethical field practices?* <input type="checkbox"/> Yes <input type="checkbox"/> No

See ethical field practices of photography from the North American Nature Photography Association (NANPA) standards <http://www.nanpa.org/advocacy/ethics/>.

Corporate Sponsorship

Sponsorship Opportunities

The Colorado Chapter of The Wildlife Society is proud of our mission to promote wise conservation and management of all wildlife resources in Colorado by serving and representing wildlife professionals. We are interested in cultivating partnerships and seeking sponsors to help further the work we are doing to benefit wildlife and wildlife professionals in Colorado. New alliances help connect wildlife professionals with the agencies, institutions, companies and non-profits with the products and services they deliver.

We have opportunities for partners to advertise in our newsletter, on our webpage, on our Facebook page or at our annual meeting. We would appreciate the opportunity to explore a mutually beneficial relationship with your organization to further wildlife conservation in Colorado together.

If you're interested in participating in a new partnership opportunity or if you have ideas about potential partnerships, contact Emily Latta at 970-240-5332 or elatta@blm.gov; or Kendra Cross at 303-328-9048 or Kendra.b.cross@usda.gov

Call For Awards

Colorado Chapter of The Wildlife Society Call for Awards

Take some time today to nominate someone who is deserving of one of the many CCTWS awards!

Awards to be presented in 2020 include:

*Douglas L. Gilbert Award for Outstanding Achievements in Wildlife
Sciences Professional Achievement in Wildlife Management (Jim
Olterman Award)*

Professional Achievement in Wildlife Administration

Professional Achievement in Wildlife Habitat Management

Professional Achievement in Education

*Professional Achievement in Law En-
forcement*

Honorary Chapter Membership

*Allen E. Anderson Award for Outstanding Wildlife Undergraduate
Student*

Chapter Service Award

Meritorious Service Award

Blown Blunderbuss Award

For details, visit our website (<http://wildlife.org/colorado/awards/>)

Nominations due to Michelle Cowardin (michelle.cowardin@state.co.us) by
January 8, 2020

Call For Awards

Student Awards – Call for nominations and applications!!

STUDENTS

Will you have completed at least 2/3rds of the credits required for graduation and a member of TWS? If so, you could be one of the few to receive the Jim Olterman Award! That's an awesome honor, an additional \$500, and a plaque to go along with the recognition at the 2020CCTWS annual meeting.

Please see the Jim Olterman Award link on the CCTWS Webpage <http://wildlife.org/colorado/awards/> Send your resume, current transcript, and a short essay to Michelle Cowardin @ michelle.cowardin@state.co.us for more details.

PROFESSIONALS

Do you know of an outstanding undergraduate wildlife student that desires some recognition?? Please nominate them! If awarded they receive the prestige of a personalized plaque, name on the traveling plaque, and a special book selected by the CCTWS. These types of awards can spring a fledgling biologist into the career field as a resume builder. All we need are current transcripts, resume, and two letters of recommendation. Students can assist in the process.

Please see the Alan Anderson Award link on the CCTWS Webpage <http://wildlife.org/colorado/awards/>

Send the necessary info to Michelle Cowardin at michelle.cowardin@state.co.us for more details.

Call For Awards

ALLEN ANDERSON OUTSTANDING WILDLIFE STUDENT AWARD REQUEST FOR NOMINATIONS

The Colorado Chapter of the Wildlife Society (CCTWS) is seeking nominations for the Allen Anderson Outstanding Wildlife Student of the Year award, which recognizes an outstanding undergraduate student at a Colorado college or university. Any undergraduate student is eligible to receive the award; preference will be given to students in wildlife and wildlife related programs. Any professional may nominate students. The student's transcripts and resume are required as part of the submission materials, which may necessitate involvement of the student in the nomination process. Nominations will be evaluated with respect to academic excellence, applied wildlife-related experience, and extracurricular activities.

The award will consist of a personalized award plaque, inclusion of the **student's name** and year of award on a traveling perpetual plaque (which will be displayed at the **student's educational institution for one year**), and a wildlife-related book that CCTWS will select. The awardee will be recognized at the 2020 CCTWS Annual meeting.

APPLICATION PROCEDURE

Nominators/students must submit the following materials for evaluation:

A current transcript of all completed coursework.

A resume describing the student's extracurricular wildlife-related activities, including employment, volunteer work, participation and service in wildlife-related organizations, or self-directed activities. The resume should include an email address, mailing address, and telephone number.

Two letters of recommendation from individuals familiar with the student's wildlife activities.

Incomplete applications will be rejected.

All materials must be submitted to the email or address below by January 8th, 2020.

SEND APPLICATION MATERIALS TO:

Michelle Cowardin

Colorado Chapter of The Wildlife Society

46525 US Highway 114

Saguache, CO 81149

michelle.cowardin@state.co.us (electronic submissions preferred)

If you have questions about the application process, please contact Michelle Cowardin via email: michelle.cowardin@state.co.us

Call For Awards

2020 Jim Olterman Scholarship Award – Request for Applications

The Colorado Chapter of the Wildlife Society (CCTWS), in cooperation with Robin Olterman, are requesting applications for the 2020 Jim Olterman Scholarship Award, to honor Jim and his contributions to Colorado's wildlife legacy.

The Jim Olterman Scholarship Award is offered annually to encourage and support an upper-level Colorado college student in the pursuit of a career in wildlife biology and management. The recipient will receive \$750 and a plaque, and will be recognized at the 2019 CCTWS Annual meeting.

Jim Olterman, a Colorado Division of Wildlife Senior Terrestrial Biologist and pilot, died in a plane crash on September 4, 2002, while conducting aerial fish stocking operations in the Sangre de Cristo Mountains in southeastern Colorado. During the crash, Jim's actions saved the life of a CDOW hatchery technician flying with him. Jim was born and raised in Kingsport, Tennessee where he gained a deep appreciation for the outdoors in general and wildlife in particular while hunting, fishing and exploring the backwoods of his aunt's farm. In 1964, Jim headed west to enroll at Colorado State University where he received his Bachelor's Degree in Wildlife Biology. In 1968, he joined the U.S. Army and later left the service as a decorated Vietnam Veteran. During his early years in the army, Jim learned to fly and flying quickly became one of the great passions of his life. After his time in the service, Jim received a Master's in Wildlife Science from Oregon State University. Jim led a spectacular career of 30 years in the CDOW. Starting out as a District Wildlife Manager in 1972 he successively assumed the positions of Wildlife Biologist in Montrose, Senior Terrestrial Biologist in the Southwest Region, and finally Senior Terrestrial Biologist for the western slope. He was also a fully commissioned peace officer and a Division pilot frequently flying survey, radio tracking, stocking, transport and law enforcement operations for the agency. Jim played an integral role in bringing desert bighorn sheep into Colorado, and moose, lynx and game birds into the southwestern part of the state. He was also an active supporter of the Colorado Chapter of The Wildlife Society and the parent organization, The Wildlife Society. He served on the CCTWS Executive Board in 1979 and 1980 and encouraged his colleagues and employees to be active members of this and other professional organizations.

Jim's main passions in life were the wildlife resources, fishing, flying and above all, his family: daughters Lara and Sally, son Tandy and his wife Robin. Robin claims that no one "new" rode in Jim's plane without hearing of his family. Shortly after his death, Sally gave birth to a daughter: Abigail James.

Rick Kahn, CDOW Wildlife Management Supervisor, a colleague and close friend of Jim's, once stated so well: "Jim was proud to live in Colorado, proud to be a wildlife biologist in this great state and proud to be part of the wildlife family. He was an inspiration to many who knew him. He was passionate about the resource and the people who appreciate it. Jim Olterman epitomized the professional wildlife biologist; he lost his life while doing the job he truly loved."

Continued on next page...

Call For Awards

Jim Olterman Scholarship Award , APPLICATION INSTRUCTIONS

You must meet the following criteria to be considered for the Jim Olterman Scholarship Award:

You must be a member of either The Wildlife Society or the Colorado Chapter of The Wildlife Society. (You may submit a membership form with payment to the Colorado Chapter of TWS when submitting your scholarship application if you are not currently a member. Please see attached membership application.)

By December 2020 you must have completed two-thirds of the credits required for graduation with a Bachelors Degree in Wildlife Biology or Management or a related natural resource field. The application consists of the following materials:

1. A current resumé.
2. A current transcript (unofficial transcripts are acceptable) indicating your current number of credits and grade point average.
3. Two letters of reference. One reference shall be from a professor familiar with your academic capabilities and accomplishments. The second reference shall be from a supervisor whom you worked for in a natural resources-related position (volunteer work is acceptable).
4. A short essay (1-2 pages in length) describing (1) your interests in the biological field, (2) your career goals and how they relate to wildlife management, and (3) how you would use the award to further your professional development.

Please direct questions to Michelle Cowardin, jmichelle.cowardin@state.co.us

Incomplete applications will not be considered. **Applications must be submitted to the Colorado Chapter of The Wildlife Society electronically no later than January 8th, 2020**

Please submit applications to:

Michelle Cowardin jmichelle.cowardin@state.co.us (subject line must include Jim Olterman Memorial Scholarship)

2019 Jim Olterman Scholarship Winner

Last year I received the Jim Olterman Memorial Scholarship and now here I am, just one semester away from obtaining my undergraduate wildlife degree. This award gave me the opportunity to continue my education at Western Colorado University, a place that has given me so many unique and hands-on learning experiences. Through these experiences at Western I have also been able to deepen my roots within the The Wildlife Society and secure a path with TWS after graduation. My chapter and I were able to attend the National Meeting in Reno together and through connections made here, I am now serving as Colorado Chapter's Conservation Affairs Network Representative. I am very grateful for these opportunities TWS has provided me and I can't wait to continue my involvement in the chapter.

Erin Blair

Western Colorado University
The Wildlife Society Chapter President
CCTWS Conservation Affairs Network Representative



Travel Grant Announcement

CCTWS Travel Grant Announcement

The Colorado Chapter of the Wildlife Society is now accepting applications for its Spring Travel Grant Program. The purpose of the CCTWS Travel Grants Program is to assist with travel costs for CCTWS members attending meetings or workshops that further their professional knowledge and benefit management and conservation of wildlife in Colorado. CCTWS will award two travel grants in the amount of \$500 each. The applications guidelines are as follows:

- Identify the training opportunity, meeting, or conference that would be helpful for your occupation or education as a wildlife professional or student CCTWS member.
- Type up a ½ to 1-page description of the meeting, telling the CCTWS Board the goals of the conference or training and describing how you would like to use this experience for your occupation or education. Be sure to explain how this meeting would be a valuable contribution to your employment or education as a Wildlife Professional.
- Include your name and contact information (phone number and email).
- Only current members of the Colorado Chapter of the Wildlife Society are eligible for these grants.
- Applications for Fall Travel grants are due by **February 1st**. Winners will be notified by **March 2nd**.

Please email applications to Awards Coordinator Emily Latta as a Word or PDF document to: elatta@blm.gov or by mail to: BLM-Uncompahgre Field Office, 2465 South Townsend Ave, Montrose, CO 81401

2019 Fall Travel Grant Report

2019 Fall Travel Grant Report - International Conference on Ecology and Transportation
Sacramento, CA September 22 - 26, 2019

I want to thank the Colorado Chapter of the Wildlife Society for awarding me the Fall 2019 Travel Grant. I had been invited to speak at the International Conference on Ecology and Transportation (ICOET) held in Sacramento, and the funds were helpful in reducing my expenses.

For those not familiar with ICOET, it is the foremost interdisciplinary, interagency supported conference addressing the broad range of ecological issues related to transportation systems and now expanding to the concept of 'linear infrastructure' beyond roadways. Experts from around the world in the arena of transportation ecology and related scientific fields gather to share current research, quality applications and best practices to enhance transportation and wildlife project design and implementation. The 2019 conference focused on the concept of achieving balance in ecology and transportation in order to provide new opportunities to better integrate sustainable transportation infrastructure into complex and vulnerable ecosystems. Attendees were mostly a mix of department of transportation staff and biologists/ecologists from many disciplines.

I was invited to be one of the presenters at the workshop 'Getting the most out of your Monitoring Cameras: A Practical Workshop for Transportation Ecologists'. I was fortunate to be a member of a four-person team that included Julia Kitsch (ECO-resolutions), Dr. Patty Cramer (Cramer Wildlife) and Chris Slesar (Vermont Agency of Transportation). Julia, Patty and I are involved in the SH9 wildlife crossing structure project. We have 62 cameras on the SH9 project, and have processed over 2.5 million photographs in the first 3-years of the 5-year monitoring study. We have documented over 45,000 successful mule deer movements at the seven crossing structures and have seen a reduction of 89% in wildlife vehicle collisions.

The atmosphere at the ICOET meeting was charged with excitement as people shared their experiences. I attended a wide range of presentations throughout the week; it was difficult to select which presentations to attend with five concurrent sessions, not to mention over 100 posters to view. A sample of those I did attend included learning about wildlife vehicle collision (WVC) risk mapping, fence-end effects, impacts of traffic volume, noise and light on wildlife successfully or unsuccessfully crossing roadways, innovative techniques associated with detection systems and WVC data collection methods, and the importance to educating the public pre and post project development. I also was fortunate to attend the Yolo Bypass field trip where we witnessed the 'flyout' of tens of thousands of Mexican free-tailed bats (largest population in CA) from under a causeway bridge. It was incredible to watch the bats emerge!

For decades, this relatively small but dedicated group has been promoting the importance of maintaining and improving habitat connectivity and movement corridors, primarily via roadway improvement projects. It is exciting, to not only be a part of, but now to be on the cusp of this work being recognized and valued across the country.

Michelle Cowardin
CPW Wildlife Biologist

2019 Fall Travel Grant Winner



Cary Aloia Partner/
Biologist
(719) 850-2562
Cary_Aloia@msn.com

Jenny Nehring
Partner/Biologist
(719) 480-0872
jen-

3393 E CR 9 South, Monte Vista, CO 81144

Ecosystem Management, Monitoring, and Technical Services

Re:
CCTWS fall travel grant
TWS Annual Conference in Reno, NV
September 28 – October 2, 2019

As a recipient of a fall travel grant from the Colorado Chapter of The Wildlife Society, I was able to attend the joint American Fisheries Society (AFS) and The Wildlife Society (TWS) Annual Conference in Reno, NV. This award helped to provide me with a unique opportunity to present and visit with colleagues as part of a wetland workshop, expand my network and knowledge about the latest research in aquatic and terrestrial habitats, and helped meet continuing education credits needed to maintain the Certified Wildlife Biologist program.

As a Wetland Biologist and part owner of a small business in the San Luis Valley (SLV) working on wetland and riparian management and monitoring I had the opportunity to present some of the latest research and cooperative partner efforts occurring in the SLV as part of the workshop 'A Process Based Approach to Wetland Management' with Dr. Leigh Fredrickson, last year's Aldo Leopold Award recipient. The workshop had presenters from across the United States sharing their knowledge with about 20 students and professionals from a variety of backgrounds. After the workshop, several of the students and professionals met with workshop presenters and joined the TWS Wetland Working Group which met later that week.

Attending the national TWS meeting was an important venue to highlight some of the issues that currently exist here in Colorado as well as network with other professional biologists and learn about other ideas and strategies that can be brought back to Colorado to help us meet our resource challenges. Specifically, networking with the other presenters in the workshop was extremely helpful in identifying some new and creative ways to partner with other organizations along with other tools that can be used for on-the-ground management in our changing climate.

One of the highlights of the trip was the incredible poster presentation that integrated AFS and TWS research. The amount of posters present and the work that is being done world-wide by students and professionals is amazing and will surely lead the way for new technologies and new understandings of the aquatic and terrestrial populations and ecosystems that we work in on a daily basis.

I greatly appreciate the travel grant from the CCTWS which helped to allow me to participate in the wetland workshop, attend the joint conference, and grow my network.

Sincerely,

A handwritten signature in cursive script that reads "Cary Aloia".

Cary Aloia
Enclosure

Small Grant Program

The Colorado Chapter of the Wildlife Society is pleased to announce its Small Grant Program for 2020. The purpose of the program is to encourage and support those projects that have a direct impact on the management and conservation of wildlife and promote wildlife education. For 2020, the chapter is offering two grants for projects that focus on research and management or projects that focus on wildlife education. One grant will be awarded to a research and management project and one grant will be awarded to an education project. The chapter is accepting applications from both members and student members of the chapter. For more details regarding application requirements, please visit our website at

<http://wildlife.org/colorado/small-grants/>

We encourage the winners of these grants to present their projects at the winter meetings.

The deadline for applications is February 1st, 2020. These grants will be awarded by March 1, 2020. Applications can be emailed to Emily Latta at: elatta@blm.gov

What is RAWA and Why Should I Care?

By Erin Blair

What is RAWA?

Prior to now, conservation and management efforts have largely been funded solely by hunting/fishing tags and related excise taxes. However, the number of hunter and anglers in the US have declined 30% since the 1970s. In July of 2019, Representatives Debbie Dingell (D-Michigan) and Jeff Fortenberry (R-Nebraska) introduced Recovering America's Wildlife Act (H.R. 3742) which would provide \$1.4 billion in dedicated annual funding across state and tribal fish and wildlife agencies. This funding would aid in the conservation of over 12,000 at-risk species, known as Species of Greatest Conservation Need (SGCN). These funds will be allocated from currently existing un-earmarked federal revenues in the General Treasury fund. Each year the General Treasury fund has \$5-12 million that comes in from various locations such as on and offshore drilling extraction royalties and general taxes. This reliable funding would provide state managers and other wildlife professionals with the ability to address threats to our wildlife populations and their habitat needs through science-based conservation and management and State Wildlife Action Plans (SWAPs). Ultimately, RAWA will bring power back into state wildlife manager's hands and protect wildlife before they become listed as a Threatened and Endangered Species.

Since July, RAWA has gained momentum and collected over 1,500 signatures from scientists across all 50 states and territories on a letter organized by the Wildlife Society showing support of this bi-partisan bill. On October 18th, this letter was delivered to members of Congress by the House Natural Resource Committees' Water, Oceans and Wildlife subcommittee. This bill already has 152 co-sponsors in the House of Representatives, but the ball keeps on rolling as more signatures are added to the scientist sign-on.

What does RAWA mean for Colorado?

Of the \$1.3 billion being distributed across state agencies, \$26,964,549 are allocated for Colorado. Funds are allocated to each state using a formula based on one-half land area and one-half population size with no state getting less than one percent or more than five percent. On top of federal funding, there is an estimated 25% non-federal match for each state coming in from private donations, in-kind contributions, state funds, and academic institutions bringing Colorado's total funding from RAWA to just under \$36,000,000. The Colorado Parks and Wildlife (CPW) have created a funding vision for Colorado by splitting their RAWA investments into four priority areas in order to identify threats, link them to actions, and create roadmaps for successfully conserving Colorado's wildlife.

The first priority area is managing Colorado's SGCN. There are 210 SGCN inhabiting Colorado so the CPW has allotted \$12,000,000 of their RAWA funds towards conducting research, restoring populations, and addressing threats in order to improve conservation management and eliminate the need to list species under the Endangered Species Act (ESA). This allows for the switch from single species management to the management for suites of species. Another part of this area is implementing research and monitoring programs including disease management, research, and surveillance to address problematic diseases in Colorado like White-Nose Syndrome and Whirling Disease.

The second priority area is conserving and restoring Colorado's priority habitats. Allotting \$15,000,000 annually, the CPW plans to use these funds to identify habitats for conservation and use mapping techniques to find opportunities to reduce fragmentation, enhance ecosystem functions, and to conserve the species of greatest concern. The CPW plans to collaborate with government, private, and non-governmental entities in order to fund landscape scale terrestrial and aquatic habitat protection projects as well as implementing climate resiliency programs to improve our adaptive capacity to respond to changes. Along with conserving habitat, this area also will fund the management and prevention of invasive species including restoring habitats affected by invasives.

What is RAWA , Cont.

Enhancing conservation on working and urban lands is the third priority area. With \$6,000,000 annually they plan to not only develop landowner assistance programs to incentivize voluntary conservation on public lands, but also partner with local governments and industries to proactively plan and implement conservation tools and best management practices. This will ensure federal, state, and local governments cooperate to address land management planning processes in order to conserve SGCN and their habitats.

The last priority area is expanding conservation education and stewardship. With \$3,000,000 allocated towards this area the CPW wants to coordinate with Colorado Outdoor Partnership and other stakeholders to build an ethic of stewardship and responsibility in the public for the care of natural and cultural resources and outdoor recreation infrastructure. Along with this they plan to proactively manage the impacts visitors and recreators on wildlife and habitats while expanding availability of tools for educators and conservation partners to advance public awareness of conservation efforts. This includes an increase of capacity for volunteer and citizen science on-ground efforts.

What can I do for RAWA?

There are many actions that can be made to help the further advancement of Restoring America's Wildlife Act. The first step to take is to add your name to the scientist sign-on letter, showing Congress that members of the scientific community support the United States working together to fight the wildlife conservation crisis. Find the letter by clicking [here](#). The next step is to contact your representatives. Out of our seven state representatives, Colorado currently has two co-sponsors: Joe Neguse and Ed Perlmutter but by clicking [here](#), you can contact your representative to encourage them to do the same. Lastly, we want to make sure we thank the Congress members already in support of RAWA so turn to social media with #RecoverWildlife to thank them or use [this template](#) to send them a thank you letter. Together we can keep the momentum behind RAWA moving and help change the way Coloradans conserve wildlife.

Student Chapter Updates

Western Colorado University Student Chapter Updates

This year Western's chapter kicked off the semester with a pizza and tie-dye party welcoming new and old members. Throughout the semester we had various presenters come to our meetings such as Carrie Calvin, a registered clinical herbalist, who taught about medicinal plants in our valley and Brandon Diamond who talked about the life of a District Wildlife Manager. Some other presentations included what it's like to work for a non-profit, interpretive rangering, and a falconry/birds of prey talk where someone brought in a peregrine falcon. We also participated in Western's homecoming Parade and were able to send a large group of both undergrad and graduate students to the Annual Meeting in Reno, NV. In Reno our members participated in many events such as the Student Leaders Luncheon and the first ever "Out in the Field" LGBTQ+ Luncheon. Additionally, one member presented her research during the poster sessions. Some other events throughout the semester included a night hike, a pumpkin carving contest, a USAjobs workshop, and a Community Crawfish Boil. We also partnered with the Forest Service and High Country Conservation Advocates to host a trail restoration project where we worked together to help shut down illegal user created trails in our area. We are closing out the semester by hosting a "Biology Bonanza" for Gunnison Valley Mentor students aged 6-12 as well as a "Learn to Prep n Cook Your Own Game" night for club members. We can't wait to see what next semester will bring!



Student Chapter Updates

Colorado State University – Pueblo Student Chapter Updates

Telemetry Training With Dr. Nate Bickford

08/10/2019

This picture was taken during one of our meetings when Dr. Nate Bickford was training our group members on how to attach radio telemetry to large birds. This training will help our members familiarize themselves and get experience with aspects that many jobs in the wildlife/biology research field entail.

CSU-P Biology Department Haunted House Fundraiser

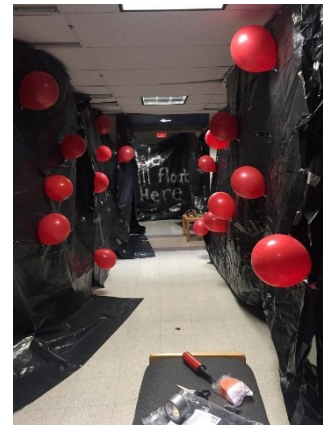
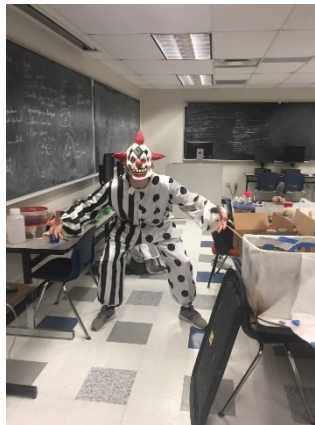
10/25/2019-10/26/2019

These pictures were taken after we finished setting up for our annual haunted house. We had around 15 members volunteer from our club.

Pueblo Reservoir Anticline Ponds Fishing trip

11/25/2019

This picture was taken at Anticline Ponds located at the Pueblo Reservoir. Seven members of the club attended, and we brought food to grill. We all had fun fishing and grilling after we were done.



Student Chapter Updates

Colorado State University Student Chapter Updates

Our student chapter enjoyed presentations from a variety of professionals including Brock McCardle (and his dog Cash), Becky Ruzicka, and Jeromy Siemers. Students were able to attend a variety of events including hawk banding in Wyoming where they gained hands-on raptor handling experience! We participated in an annual STEM night at Shepardson Elementary this fall. Students enjoyed teaching young children and their families about wildlife in their own backyards and included a tracking station where kids made plaster casts of their own handprints.

Several students also had the opportunity to attend the National Conference in Reno this year and all presented posters while they were there. We had a great semester overall and are looking forward to the spring semester and more opportunities to learn about wildlife and future careers!



Board Candidates

Watch for a member email in January with an opportunity to vote! Your voice drives this chapter.

The Colorado Chapter of the Wildlife Society members are encouraged to vote in the upcoming election. Electronic voting will open in mid-January for 10 days. Please see our board candidates for 13 elected seats below. **If you are interested in serving on the board please contact a current board member.**

Special thanks to April Estep, Nate Seward and Aran Johnson who served as board members for several years. April served as Southeast Rep, Nate served as treasurer and Aran as the Southwest Rep. Thanks especially to Jesse McCarty who served as President -Elect in 2019! We greatly appreciate the service of our dedicated board members!

In November 2019 the CCTWS Board appointed a new President-elect to fill the shoes of our former President-elect. The new President-elect will assume the role of President beginning during the 2020 annual meeting.

PRESIDENT (2020): Nathan Galloway, PhD



I am a wildlife biologist for the National Park Service, stationed in Fort Collins where I focus on the applied ecology of wildlife diseases. I completed my PhD at Colorado State University with a project on the genetics of a Colorado mule deer population with endemic chronic wasting disease. I grew up in Wyoming and spent several years working in microbiology labs on the east coast, but I am thrilled to be back in the West, and to be working on actual wildlife. When I'm not thinking about wildlife or serving as the resident handyman at home, I'm riding bikes, hiking, camping, or hunting, or some combination of these.

PRESIDENT ELECT (2020): DR. NATE BICKFORD (CANDIDATE)

Dr. Nate Bickford was born in Colorado in 1974 and has spent his life being curious about the natural world we inhabit. From his earliest recollection science has always been his interest and passion. He has especially been interested in aquatics and birds. As an avid fisherman and falconer these research areas are quite suitable to keep his interest and always bring about new research questions. Dr. Bickford received his BS in Biology at Lenoir-Rhyne University, in North Carolina. He received his master's from Appalachian State University in Biology. His master's work focused on parasites. He received his PhD from Arkansas State University in Environmental Science and his dissertation consisted of work on fish populations. Dr. Bickford received an NSF Post Doc Fellowship to continue his research work in Alaska where he directed and mentored graduate student research. After leaving Alaska he was employed at the University of Great Falls, in Montana, as an Associate Professor and Director of the Science Undergraduate Research Experience (SURE) program. Dr. Bickford started University of Nebraska Kearney in the Fall 2015 as associate professor in Biology. He took a position at Colorado State University Pueblo as the coordinator of Wildlife Program in 2019. His teaching area is sustainability and conservation.



Board Candidates

PAST PRESIDENT: JESSE MCCARTY



Jesse is a native of Colorado and a Veteran.

This patriot was born in Montrose, but left the state for Washington after serving in the US Navy. He earned his Bachelor's degree in Environmental Science and Resource Management with an emphasis on Wildlife Conservation from the University of Washington in 2010. Jesse has worked for the US Forest Service since 2008 and currently serves as a District Wildlife Biologist on the Saguache Ranger District of the Rio Grande National Forest. Jesse was an active member in the UW student chapter of TWS and the Washington State Chapter. He was selected to serve as the President- Elect for the WA State Chapter in 2016, but transferred to CO later that same year to be closer to family. He has volunteered as the Student Awards Committee Chair since 2017 for the CO State TWS Chapter and currently serves as President. He is looking forward to serving at Past-President in 2020. The years as a FS Bio has

broadened Jesse's perspective on species management and conservation from focusing on predator ecology early on to snail and earthworm management to night work with bats and owls; though his heart still reminisces on wolverines. Here pictured is Mallory, named for the Okanogan-Wenatchee National Forest former Chelan District Biologist Mallory Lenz who passed in 2013 from her third round of cancer. She was just as tough as this young wolverine.

NORTHWEST REPRESENTATIVE: Dr. Kathleen Griffin (returning)

I look forward to the opportunity to serve on the Board as the NW Representative. For the past 7 years, I have been the Grouse Conservation Program Coordinator for Colorado Parks and Wildlife working with greater sage- grouse, Gunnison sage- grouse, and Columbian sharp- tailed grouse. My experiences include working with a diversity of species (from turtles to fishers, red- cockaded woodpeckers, and spotted owls) in a wide variety of ecosystems. I received my PhD from University of Montana, a M.S. from Washington State University, and a B.S. from Humboldt State University in California. Most of my experience is focused on species management/conservation and making conservation work on-the-ground. As a Peace Corp Volunteer (Honduras 1991-1993), I certainly gained an understanding of the importance of involving the local stakeholders in order for conservation efforts to be sustainable for the long-term. Within this group, it's probably fairly trite to say I enjoy the outdoors/nature but it truly is the core of my being. I grew up exploring the SW deserts, rock hounding, and investigating every bit of nature with my father. In my endeavors closer to home, I find joy in growing and eating my own vegetables, and all types of biking – mountain biking, cyclocross racing, and road biking.



Board Candidates

SOUTHEAST REPRESENTATIVE: CASSIDY ENGLISH (Candidate)



I am excited for the opportunity to be on the CCTWS Board as the southeast representative. I was born and raised in Aurora, Colorado. Growing up along the Front Range, I was able to explore the best of the mountains and the plains. Since I could talk, nearly everything in my life has revolved wildlife. My passion for wildlife landed me at Colorado State University- Fort Collins, where I received a B.S. in Fish, Wildlife, and Conservation Biology. Currently, I am a District Wildlife Manager for Colorado Parks and Wildlife in the southeast region. I spend my days and nights doing anything from hazing bears to checking hunters and anglers. I spend a decent chunk of time assisting the terrestrial and aquatic biologists in any way I can. As a wildlife officer, two of my passions are bridging gaps between different agencies and working to mitigate the human-wildlife conflict. Previously, I

worked as a bird-keeper in Denver and volunteered at an emu ranch near Fort Collins. At home, I enjoy spending time with my two border collies, Balan and Lancelot. I like to go cross-country skiing and of course hiking and deer hunting. Sometimes I am able to squeeze in time to paint, garden, and bake the best chocolate chip cookies.

NORTHEAST REP: JOHN HUGHES (Returning)

John Hughes is a wildlife biologist for the U.S. Fish and Wildlife Service's National Black-footed Ferret Conservation Center in Wellington, Colorado. John has worked for the U.S. Fish and Wildlife Service for 15 years, and his professional interests include conservation and management of endangered species, rangeland



ecology, and conservation of wildlife on private lands. John has a bachelor's degree in wildlife biology from the University of Montana, and a master's degree in biology from Kansas State University. John is a Certified Wildlife Biologist and member of The Wildlife Society and is a lifelong hunter, birder, and hiker.

Board Candidates

SOUTHWEST REP: MARCELLA TARANTINO (Returning)



Marcella grew up in Golden, Colorado and moved to the Western Slope to attend Western State College in Gunnison in 2011 for her undergraduate degree. She worked for Colorado Parks and Wildlife and the U.S. Forest Service in Gunnison, as well as Oregon State University. Marcella then studied sage-grouse diet and habitat use at Boise State University for her Master's Degree. After completing that work, she then moved to Montrose, Colorado in 2015 for her work with Bird Conservancy of the Rockies as a private lands wildlife biologist as part of the Stewardship department, and transferred over to Gunnison in 2018. Her work is primarily focused on conservation and restoration of habitat for Gunnison Sage-Grouse. Marcella first became involved in The Wildlife Society as a member of the founding group at Western

State College, and then began another chapter (unofficial) at Boise State. Soon after moving back to Colorado, she began to serve on the board for CCTWS as a member-at-large, and really enjoys working with other biologists across the state.

AT-LARGE BOARD MEMBER: Andrew W. Don Carlos (returning)

I've been a CCTWS member since 2011 and started serving as an at-large member of the board in 2015. I look forward to working with all of the dedicated people who have made CCTWS such a great organization for Colorado wildlife. I'm currently a Research Associate in the Human Dimensions of Natural Resources Department at Colorado State University in Fort Collins. My research, teaching, and outreach work is focused on the application of the social sciences to inform natural resource management, with an emphasis on understanding human interactions with wildlife. I'm currently the project manager for the America's Wildlife Values project, a CSU led research initiative designed to assess public values toward wildlife in all 50 states. I also serve as the co-leader of a program developed with the Wildlife Institute of India to provide in-service training for Indian forest and wildlife managers. Prior to my current position at CSU, I've worked on applied social science research for a variety of local, state, and federal wildlife conservation agencies. I received a B.S. in Geography and Natural Resources from the University of Minnesota and an M.S. in Human Dimensions of Natural Resources from CSU, where I'm currently pursuing a Ph.D. When I can get away from work I love to hunt, fish, hike, and camp. I also enjoy music (understatement), travel, sports, and trying to learn wildlife photography.

Board Candidates

SECRETARY: MARK FLETCHER (Returning)



I am a Colorado native and was born and raised in Gunnison. I spent my childhood hiking around in the Rocky Mountains, where I gained a great deal of exposure and appreciation for the outdoors and wildlife through fishing, hunting, and camping with my family. I spent several years in Alaska, attending the University of Alaska in Fairbanks and studying Wildlife Biology. During the summers, I did volunteer work for the Tetlin National Wildlife Refuge in Tok. I returned to Colorado in 2013, where I lived and worked on a ranch in the Gunnison Valley learning animal, land, and water management, while simultaneously finishing my B.S. in biology at Western State Colorado University. Soon after, I was hired as a biologist at Pinyon Environmental Engineering, Inc. in Lakewood. At Pinyon I provide environmental planning and permitting services to a wide array of clients in various industries including mining, transportation, and wind energy. I lead biological resource evaluations for many projects and provide supporting

technical and permitting documents. My extensive field experience includes migratory bird and bat surveys; raptor nest monitoring; threatened, endangered, and sensitive species Surveys; habitat assessments; and wetland Delineations. My Wife, Ashley, is also from Gunnison and we love to spend just about all our free time outdoors with our two dogs.

We enjoy a wide array of outdoor activities like hunting, fishing, birding, skiing, and hiking/backpacking. We will use just about any excuse to get away from the hustle and bustle of the city and back into the mountains.

AT LARGE REP: EMILY LATTA (Returning)

I am new to the Colorado Chapter of the Wildlife Society board and began serving on the board February 2019. I appreciate CCTWS ability to simultaneously connect wildlife professionals and to promote wise conservation and management of wildlife resources in Colorado. I am excited to have the opportunity to be a part of the board. I grew up in southeast Iowa in a family that had a deep appreciation of the natural world and prioritized spending time outside. I attended Metropolitan State University of Denver, earning a B.S. in Environmental Science and an M.S. in Environmental Biology from Regis University in Denver. Between degrees, I spent multiple seasons employed with Colorado Parks and Wildlife as a wildlife and research technician working with white-tailed ptarmigan, birds and snowshoe hares. After graduate school I began working for the BLM as a seasonal wildlife technician at BLM Royal Gorge Field Office and then as a wildlife biologist. Recently, I moved to the western slope to work as a wildlife biologist for the BLM Uncompahgre Field Office in Montrose and am thrilled to be on the west side of the divide. My work time is spent monitoring sensitive species and working to protect wildlife resources under a multiple use management scenarios. Outside of work I ride dirt bikes, mountain bikes, road bikes and cross bikes. If not on a wheeled machine, I am playing classical piano and hanging with my family. I am looking forward to continuing my role as an at-large board member for CCTWS and hope to see all of you at the 2020 Annual meeting this February 5-7 in Fort Collins!



Board Candidates

TREASURER: MATTHEW RUSTAND (Candidate)



I am originally from Minnesota and had not been farther west than the Black Hills of South Dakota until I was in college. I have been married to my high school sweetheart for nearly 17 years. She has been my support and has been willing to follow me around all these years while attempting to establish a career (although I think she enjoyed the adventure). We have four children: Charlie (9), Alanna (7), Molly (5), and Hattie (3). I enjoy hunting and fishing, hiking and backpacking, mountain biking, and car camping with the family. I roast my own coffee and bake all the bread my family consumes. We enjoy growing our own vegetables and to raise meat chickens. We, as a family, enjoy adventures and put a premium on experiences. I received a B.S. in Natural Resources

Management from North Dakota State University in 2004 and an M.S. in Zoology in 2010 from Southern Illinois University, Carbondale. I have worked in the wildlife field for several state and federal agencies in Minnesota, Montana, Illinois, Oregon and Colorado. Those experiences provided me an opportunity to work on some very complex projects while working with some interesting species such as grizzly bears, black-footed ferrets, and northern and Mexican spotted owls. Currently, I am the wildlife and threatened and endangered species program lead for the Bureau of Land Management-Royal Gorge Field Office covering the eastern third of Colorado. My primary focus is public land management; however, my passion is monitoring and managing of special status species within the field office.

AT LARGE: SARA KRAMER (CANDIDATE)

Sara was born in Las Cruces, New Mexico but has called Colorado home for over 20 years. She earned her Bachelor's degree in Fish, Wildlife and Conservation Biology with a focus on Wildlife Biology in 2012 and her Master's Degree in Natural Resources Stewardship focusing on Restoration Ecology in 2018, both from Colorado State University. While an undergraduate she lived in South Africa for one year studying Wildlife Management at Nelson Mandela Metropolitan University. She spent her weekends there working at the Modgaji Conservation Project rehabilitating cheetahs and conducting land restoration projects. Sara has worked with numerous land agencies and organizations throughout Colorado and Wyoming including Colorado Parks and Wildlife, US Forest Service, Rocky Mountain National Park, US Fish and Wildlife Service, a private consultant and, currently, the City of Boulder Open Space and Mountain Parks. She has been involved in a variety of research and management projects studying: American pikas, black bears, elk, mountain lions, Canada lynx, raptors, sage grouse, and land restoration. After seven years conducting wildlife research Sara desired to learn more about habitat management and diverged, just a bit, from her original trajectory to work with carnivores. She has spent the last several years focusing on vegetation and soil management to target bottom up strategies in wildlife conservation. Though plants are not quite as exciting as the critters she has had the privilege of working with in the past she is learning to appreciate their diversity and important roles in the system. Sara lives in Lyons with her husband and dog, Pecos. She enjoys backpacking throughout the state in the summer, gardening, and spending time with her family in New Mexico. Pictured is Sara assisting with a Mexican wolf capture in New Mexico in the fall of 2019.



Board Candidates

AT LARGE: CASEY SETASH (CANDIDATE)



I am a PhD student in the Fish, Wildlife, and Conservation Biology department at CSU studying the impacts of ranching on breeding waterfowl, specifically evaluating the impacts of flood irrigation. My current work is focused in North Park, but I also did a master's on breeding waterfowl ecology at CSU focused down in the San Luis Valley. My past field experience has taken me to the west coast of Alaska (spectacled eiders), all over central Mongolia (saker falcons), Montana (passerines), and the wilds of New Jersey (raptor banding). I have been a member of CCTWS since I arrived from the east coast in 2015 and I was very involved in my undergraduate chapter of TWS at Virginia Tech, holding several positions on the executive board. Being a part of this organization is an important aspect of my identity as a wildlife biologist and I am excited to continue being a part of it as I work on my PhD. Outside of work I enjoy brewing beer, birding, gardening, and I am a fairly recent hunting convert, scouring Northern Colorado for mule deer and ducks with my black lab, Pete.

NATE JONES (CANDIDATE)

Nate grew up in Minnesota and spent a few years in Pakistan and Brazil, where his parents were teachers at international schools. During high school Nate and his family moved to the mountains of Colorado. He earned a Bachelor of Arts in Environmental Biology from what was then Western State College and a Master of Science in Fish, Wildlife, and Conservation Biology from Colorado State University. Nate is a Certified Wildlife Biologist® with 15 years of experience finding proactive solutions to conservation challenges. Nate's career has focused on assessing the impacts of development on wildlife habitat and implementing functional conservation at the interface of private development and environmental policy. His experience is highly varied: he has helped protect raptor nests from oil development in northeastern Utah; protected endangered plant habitat from natural gas pipelines in the Piceance Basin; identified solutions to minimize the impacts of renewable energy on birds in southern Wyoming; guided measures to reduce underwater noise impacts on marine mammals in the Aleutian Islands; and helped the Alaska DOT maintain connectivity of wildlife corridors by designing the first bridge dedicated to wildlife use in the State of Alaska, amongst many other unique experiences. Nate is an expert in the National Environmental Policy Act and Endangered Species Act. He looks forward to helping the CCTWS maximize their influence in policy decisions and respond to management proposals with sound science. Nate also hopes to help CCTWS work with private partners to implement effective wildlife conservation throughout the region. Nate, his wife Jennah, and their 15-month-old son, Aksel, just returned home to Colorado after 7 years in Alaska. Nate is currently a Senior Biologist with HDR and works from his home office in Buena Vista, Colorado. He enjoys mountain biking, rafting, skiing, photography, and being involved in local conservation initiatives.



Board Members

CCTWS Board – September 2019

Officers

President: Jesse McCarty

Past-President: Pat Magee!

President-Elect: Nathan Galloway

Treasurer: Nathan Seward

Secretary: Mark Fletcher

E-mail Contact

jesse.mccarty@usda.gov

pmagee@western.edu

nathanlgalloway@gmail.com

Nathan.seward@state.co.us

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Executive Board: Regional

NE Representative: Kendra Cross

Kendra.B.Cross@aphis.usda.gov

NW Representative: Kathy Griffin

kathy.griffin@state.co.us

SE Representative: April Estep

April.estep@state.co.us

SW Representative: Aran Johnson

ajohnson@southernute-nsn.gov

Executive Board: At-Large

Andrew Don Carlos

awdc@lamar.colostate.edu

John Hughes

john_hughes@fws.gov

Marcella Tarantino

Marcella.fremgen@co.usda.gov

Committees and Chairs, Dec. 2019

Committee	Chair	Chair Contact
Standing Committees		
Conservation and Land Use Review	Randy Ghormley	rghormley@fs.fed.us
Information and Education	Vacant	
Annual Meeting Program	CCTWS Board	pmagee@western.edu
Finance and Fund Raising (Auction)		
Audit	Vacant	
Legislative Review	Vacant	
Wildlife Management	Vacant	
Newsletter	Aran Johnson Alex Fortney	ajohnson@southernutensn.gov Alexandra.fortney@western.edu
Nomination/elections	Vacant	
Policy/Resolutions	Vacant	
Professional Awards	Michelle Cowardin	Michelle.cowardin@state.co.us
Student Awards	Jesse McCarty	jmccarty@fs.fed.us
Membership	Mindy Rice	rice1min@gmail.com
Ad Hoc Committees		
Certification	Rob Schorr	rschorr@lamar.colostate.edu
Historian	Dangoule Bockus	Dangoule_bockus@nps.gov
Photographer	Max Canestorp	Kmax1350@mesanetworks.net
Small Grants and Travel Grants	Chris Mettenbrink	Chris.mettenbrink@state.co.us
Web Page, Social Media (Marketing)	Aleshia Rummel	Aleshia.rummel@co.usda.gov
Professional Development Programs	Vacant	
Student Affairs and Mentoring	Vacant	
Representatives		
CSU Student Chapter	Charlee Manguso Liaison: Andrew Don Carlos Advisor: Larissa Bailey	charlee09@msn.com Andrew.don_carlos@colostate.edu Larissa.bailey@colostate.edu
Western Student Chapter	Erin Blair Liaison: Nathan Seward Advisor: Pat Magee!	Erin.blair@western.edu Nathan.seward@state.co.us pmagee@western.edu
CMPS President	Andrea Orabona	Andrea.orabona@wyo.gov
CMPS Representative to TWS	Bob Lanka	Boblanka5839@gmail.com
CCTWS Representative to CMPS	Pat Magee!	pmagee@western.edu

Are you interested in being more involved with the society?
We currently have openings for
committee chairs

Please contact Jesse McCarty (jesse.mccarty@usda.gov) or any current board member if you have interest in serving as a committee chair.

Membership Form

COLORADO CHAPTER OF THE WILDLIFE SOCIETY - MEMBERSHIP APPLICATION

Name: _____

Address
City: _____ State: _____ Zip Code: _____

Work Phone: _____ Home Phone: _____

E-Mail: _____

Today's Date: _____

Affiliation: _____

Interested in Committee Work? Yes No

Are You a TWS Certified Biologist? Yes No

Areas of Expertise/Interest: _____

Dues: 1 Year: \$15 2 Years: \$27 3 Years: \$35 Student/Retirees: \$10

MC/Visa: _____ Expiration Date: _____

Signature: _____

Mail to: Nathan Seward, Colorado Parks and Wildlife, 300 West New York Ave., Gunnison, CO 81230
Or scan and email to: nathan.seward@state.co.us

Please visit the Colorado Chapter of the Wildlife Society web page at Wildlife.org/Colorado and the Wildlife Society web page at Wildlife.org. Become a member today!