



WILDLIFE TRACKS

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

Spring, 2020



Chapter Officers

President:

Nathan Galloway

Past President:

Jesse McCarty

President Elect:

Nate Bickford

Treasurer:

Matt Rustand

Secretary:

Mark Fletcher

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President's Column

These are strange times we're living through. I would encourage everyone to try to focus on what's really important to you. For me, that's staying connected with friends and family, and with nature. This may take more intentional effort with the difficulties of social isolation under the current Stay-at-Home order. Don't let that stop you.

Our annual meeting in Fort Collins was a great success. Thanks to everyone who came out. We had some great talks, posters, and discussions. The workshops, as usual, were a big draw for folks. Thanks again to all of the sponsors that make these meetings possible. Great work, everyone. Wow, we can put away some coffee!

Thank you also to some recent past board members, Nate Seward, Aran Johnson, April Estep and Pat(!) Magee. Board members are the people who really make this chapter work and we couldn't do it without their time and effort. Please reach out to a board member if you would like to get more involved.

We're looking forward to another great year for the Colorado Chapter. Please don't hesitate to reach out to any board member with ideas about how the chapter can better serve its members.

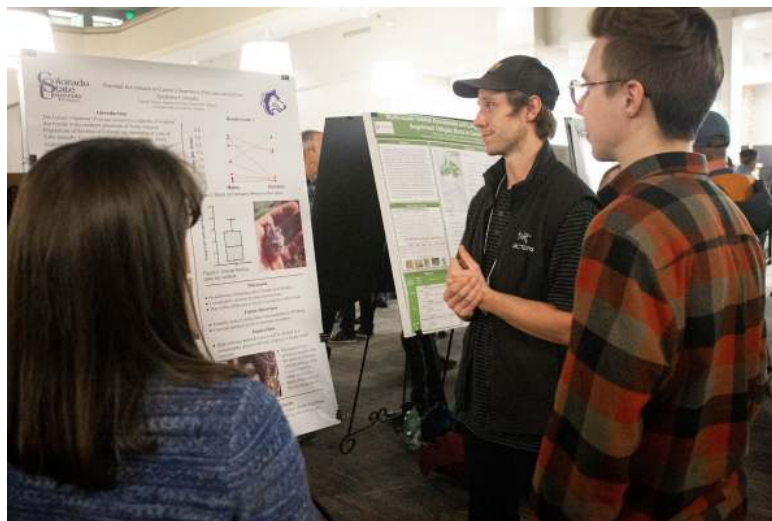
Take care of each other. Stay safe and be well.

Nathan

Annual Meeting Photos



Annual Meeting Photos



Congratulations to the 2020 Award Recipients!

Thank you to everyone that took the time to submit nominations. We presented eight awards in 2020.

Congratulations to the award recipients!

Nate Seward, Aran Johnson and April Estep - Chapter Service Awards
Jeromy Huntington - Professional Achievement in Wildlife Education
Gene Abram - Professional Achievement in Wildlife Law Enforcement
Brad Petch - Jim Olterman Award for Professional Achievement in Wildlife Management
Lisa Wolfe - Douglas L. Gilbert Award for Outstanding Achievement in Wildlife Sciences
Brad Petch - Blown Blunderbuss Award



A special congratulation to Brad Petch for being the first person in the same year to receive both the Jim Olterman Award and the Blunderbuss Award. Not an easy feat to achieve!



We also honored past-presidents Tony Gurzick, Pat Magee, Jesse McCarty and Ryan Monello with plaques and TWS President Pins. Photo includes CCTWS past-presidents: Tony Gurzick, Pat Magee, Jesse McCarty, Mindy Rice, Michelle Cowardin, Lyn Stevens and Tom Remington.

2019 CCTWS Research Grant Recipient



Ecology of the Slate River Great Blue Heron (*Ardea herodias*) rookery and impacts of human activities

Ellie Orr, Jake Bartholomew, and Patrick Magee!

Department of Natural and Environmental Sciences, Western Colorado University,
Gunnison, CO 81231



Outdoor recreation has long been a key element of the Crested Butte culture and economy, but in recent years, stand-up-paddle (SUP) boarding has become a popular recreational activity. The Great Blue Heron (*Ardea herodias*) is a seasonal visitor here, migrating each spring to find a mate, reproduce, and raise their young in their long-term colonial nesting site. The breeding season is a critically important and energetically expensive time in the life cycle of adult herons, and human disturbance can cause responses in the population as severe as colony abandonment.

We studied the breeding biology and effects of human recreation on Great Blue Herons along the Slate River near Crested Butte, Colorado. The stretch of river of concern winds through the upper Slate River Valley and immediately beneath the heron colony. This unique, high-elevation heronry is located at nearly 9,000 feet and consists of more than 20 nests. This rookery has persisted for over 20 years in two small conifer stands on the banks of the river. The Crested Butte Land Trust (CBLT) owns and manages the colony property. Starting in 2018, they assembled a working group of stakeholders to address conflicting land management values between recreation and wildlife in the upper Slate River. Based on data we collected in 2018, the Slate River Working Group adopted a voluntary no-float period from mid-March to mid-July 2019. Our 2019 study assessed the effectiveness of the no-float period in minimizing impacts on herons.



The first adult heron arrived on 17 March and the last chick fledged on 2 September 2019 for a total breeding season of 169 days. The heronry consisted of 20 occupied nests, 19 of which successfully fledged young. A total of 47 chicks hatched and 41 chicks fledged for a fledgling success of 87.2% ($n=47$). We observed 8,430 human activities in the vicinity of the colony through the breeding season, or 40.5 events per hour. Of these, only 1% were river recreationists. However, this small fraction of disturbance accounted for 71% of adult alert, 68% of chick alert, 100% of chick hunkering, and 100% of adult flushing behaviors. Only one group floated during the voluntary no-float period that ended on July 15. However, a mandatory and regulatory closure was enforced by Gunnison County for about 6 weeks due to high water and dangerous float conditions. From 14 July to 10 August we recorded 104 watercrafts (mostly SUP boards) and 123 people float the river through the area of the heronry. Larger groups (> 5 crafts) that made noise, stood upright, stopped below the colony, and/or dismounted their crafts were associated with more detrimental heron responses. Our research contributes to a community-based, science-driven, adaptive management approach to conserve Great Blue Herons in the Slate River ecosystem.

Life Cycle Event	2019 Phenology
Spring Arrival	17 March
Nest Building	17 March – 14 June 89 Days
Incubation	12 April – 5 July 84 Days
Hatching	10 May – 5 July 56 Days
Brooding	10 May – 2 September 115 Days
Fledging	7 July – 2 September 57 Days
Fledgling Stage	Immediate Departure

NEPA / Regulatory Committee

New in 2020, the Colorado Chapter of TWS has established a NEPA/Regulatory Committee. The mission of this committee is to track projects and regulatory proposals that affect wildlife and engage through public comments in the decision-making process. The committee will focus on sustaining wildlife populations and guiding effective wildlife conservation and management through a strong, constructive, science-based voice. The intent is to leverage the expertise of our diverse membership to provide decision makers with the science necessary to make informed decisions in favor of conservation. Already this year, the committee helped CCTWS submit a comment on the proposed rule that would change policy around the Migratory Bird Treaty Act. CCTWS is asking all members from across the state to keep an eye out for projects and proposals in your local area that might impact wildlife and for which there may be opportunities for CCTWS to comment. If you are aware of any such opportunities or would like to be more involved in the committee's work, please contact the committee chair, Nathan Jones (nate.f.jones@gmail.com).

Student Chapter Updates

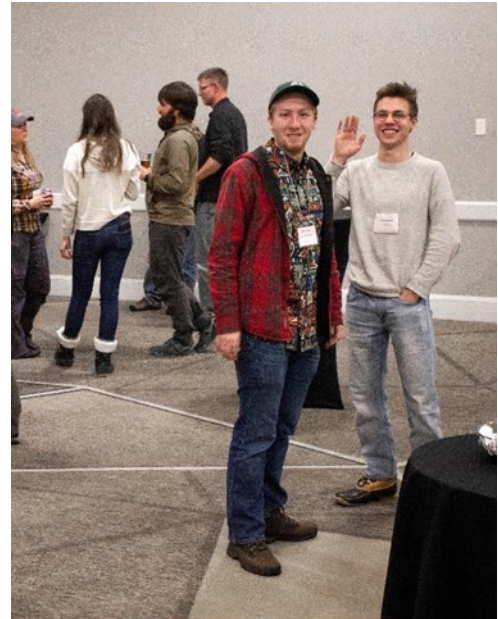
Colorado State University

Fort Collins, CO

Our chapter has had a busy start to the semester! We began with the state conference where our officers had a great time introducing themselves to the rest of the members of the Colorado chapter! Our raptor monitoring team has been continuing their work at Boyd Lake. Several members attended Colorado Partners in Amphibian and Reptile Conservation (COPARC) annual meeting. We have also attended several science focused events for children in our community, participated in Shepardson Elementary's STEM week, and talked to children about hibernation and migration. We visited Windsor library to take part in their innovation fair where our officers had the opportunity to give some insight to what TWS is to high school students who are interested in wildlife.



*(Above) Students attended the COPARC 2020 Meeting
(Right) Chapter president, Remi Pattyn and vice president, Grant Pegram attended the CCTWS 2020 Meeting*



Students participating in outreach at the Windsor Library and Raptor Monitoring at Boyd Lake

Student Chapter Updates

Western Colorado University

Gunnison, CO

This year our chapter got to send six undergraduate and four graduate students to the annual meeting! Our students enjoyed networking and meeting other student chapters, as well as presenting research. Kristin Ross and Jake Bartholomew got to present their own research during the poster sessions and Courtney King gave an ignite presentation about her upcoming research. Alex Fortney won the Jim Olterman Memorial Scholarship award and Erin Blair received the Allen Anderson Outstanding Undergraduate Wildlife Student Award.



From top left: Pat Magee, Courtney King, Alex Fortney, Alyssa Rawinski, Chloe Beaupre, Alissa Bevan, Erin Blair, Katie Bradfish, Brandon Sketbetz, and Jake Bartholomew

“As a freshman, going to the conference was a new and exciting experience. I learned a lot about potential positions in the wildlife biology field and how to find opportunities. My favorite part was listening to the disease symposia and learning about current research projects that are happening around the state.” *Alyssa Rawinski, Club Historian*

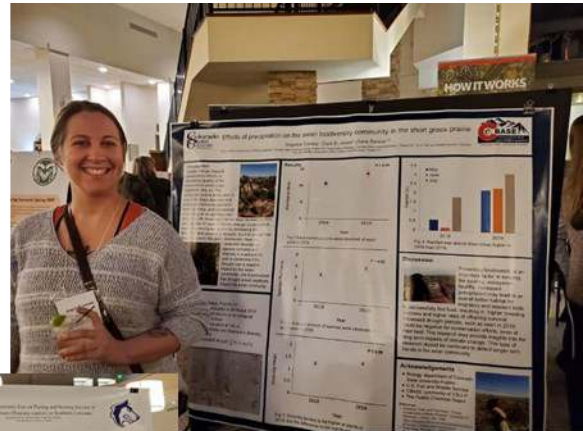
“This was my fourth state meeting and my last one as a student – and I couldn’t have asked for a better one! Another great year spent with old friends as well as making new ones. I am beyond grateful for receiving an award and I will try my best to continue Allen Anderson’s legacy with honor!” *Erin Blair, Club President*

Student Chapter Updates

Colorado State University - Pueblo

Pueblo, CO

We had 5 students and members attend the conference and all presented their own research and got to meet a lot of new people at networking events while also learning about job opportunities. We also thought that the bat acoustics workshop was very interesting! Two students from our chapter won awards as well; Augustus Forrest won the wildlife photography contest and Garret Visser won the poster session.



(From top left) Alex Sinker, Augustus Forrest, and Angeline Canney all presented their research during the poster session in February!



“My favorite part of the CCTWS meeting was the student networking breakfast. This made it extremely easy to be able to speak to professionals in our field to see what they are doing on a day to day basis. I enjoyed how it allowed for some of the awkward tension to be resolved; it was resolved in the fact that we were specifically there to speak to them for that purpose. Sometimes during conferences, it can be difficult or awkward to try and speak to a professional, but this networking breakfast made it fun and easy to make meaningful connections. The conference was very engaging and interesting to attend.” *Augustus W. Forrest*

“One of my favorite parts about the conference was learning how wildlife is moving towards inclusion of better technology for more efficient management, data gathering, and research. We also learned that wildlife professionals and agencies are driving towards human dimensions to counteract human and animal conflict.”
Angeline Canney

Student Chapter Updates

Colorado Mesa University

Grand Junction, CO

We are thrilled to welcome a new student chapter from Colorado Mesa University! The Fish and Wildlife Club on campus was already an AFS student chapter and decided this semester to expand into a TWS student chapter as well. We were happy to see three representatives from their chapter at the annual meeting in February!

This semester we students were able to attend The Wildlife Society conference and take a tour of our local Insectary in Palisade, Colorado. We plan to fundraise for our chapter by selling our shirts, cups, and guides at local events. We plan to continue our monthly meetings with guest speakers from BLM, USFS, CPW, and USFWS. The club is organizing a trip to see sage grouse lekking this spring and are also working with CPW to organize a free hunters education course on campus. Since many of us are graduating this spring, elections will be held in April; we hope that new CMU students will enjoy the benefits of being members of a TWS student chapter!



*(Above Left) Students selling t-shirts, cups, and guides to fundraise for their chapter
(Above Right) Carrie Vinkemeir, Jake, and Brittany Buckley attended the CCTWS meeting in February
(Below) Students visited the insectary in Palisade and got hands-on experience with the insects there.*



Fostering Sustainable and Healthy Behavior Workshops

Dr. Doug McKenzie-Mohr will be delivering introductory and advanced community-based social marketing training virtually in May and June. These workshops will be of particular interest to agencies working to promote waste reduction, energy and water efficiency, conservation, sustainable food consumption, the control of invasive species, modal transportation changes and other sustainable actions. These sessions will also be of interest to organizations promoting health and safety (e.g., hand washing, social distancing, active lifestyles, immunization, cancer prevention and screening, blood donations, earthquake and fire safety, workplace safety, etc.). Community-based social marketing is a unique approach to fostering both environment and health related behavioral changes and is now being utilized globally.

About the Speaker

For over three decades Dr. McKenzie-Mohr has been working to incorporate scientific knowledge on behavior change into the design and delivery of community programs. He is the founder of community-based social marketing and the author of three books on the topic. One of these books has been recommended by Time Magazine and become requisite reading for those who deliver programs to protect the environment, promote public health and prevent injuries. His work has been featured in the New York Times and he is the recipient of the American Psychological Association's inaugural award for innovation in environmental psychology and the World Social Marketing conference's inaugural award for contributions to the field of social marketing. He has delivered workshops internationally for over 75,000 program managers -- below is a small sample of recent anonymous evaluations:

"Fantastic, simply invaluable."

"The best workshop/conference I have EVER experienced."

"This is hands-down the most valuable workshop/training I've ever attended."

"Speaker was wonderful." "A life-changing event."

"Outstanding presentation style. Expertise is obvious." "Superb presentation skills."

"By far, the best workshop I have attended – on any topic!"

Introductory Workshop (May 18-19, June 15-16): The two-day introductory workshop provides a comprehensive introduction to community-based social marketing and how it is being applied throughout the world to foster behavior change. Those who attend the workshop will learn the five steps of community-based social marketing (selecting behaviors, identifying barriers, developing strategies, conducting pilots, and broad scale implementation) and be exposed to numerous case studies illustrating its use. Participants will receive an electronic copy of the third edition of "An Introduction to Community-Based Social Marketing." The introductory workshop is a **mandatory** prerequisite for the advanced workshop.

Advanced Workshop (May 20-21, June 18-19): The two-day advanced workshop provides an in-depth exploration of how community-based social marketing can be used to foster behavioral changes and provides attendees the opportunity to apply this approach to their own programs. Building on the introductory workshop, participants will be exposed to advanced topics regarding fostering behavioral changes, with a particular focus on the formation of habits that protect the environment or foster public health and safety; accurately determining the barriers to a behavioral change; and program evaluation and determining return on investment. The workshop also addresses the effective use of social media, apps and websites. Participants will also be coached in making community-based social marketing presentations to their agency or community and will receive PowerPoint and Keynote presentations for this purpose. This workshop is restricted to individuals who have previously attended Dr. McKenzie-Mohr's introductory workshop. If you have not yet attended an introductory workshop, reduced rates are available for attending both sessions.

Fostering Sustainable and Healthy Behavior Workshops, cont.

Group Bookings

If you are interested in registering five or more people from the same agency, please contact us. For groups of five or more the reduction is \$75 per person. These group reduced rates are in addition to our 10% reduction that we provide if someone registers for both the introductory and advanced workshop.

Additional Information and Registration:

Use the following coupon code to receive \$50 off when registering: 4d01e48f This savings is in addition to the 10% price reduction for those who attend both workshops.

May 18-21 -- Introductory and Advanced CBSM Workshops:

<https://www.cbsm.com/workshops/virtual-workshop-may-2020>

June 15-19 — Introductory and Advanced CBSM Workshops:

<https://www.cbsm.com/workshops/virtual-workshop-2020>

Announcement Regarding Membership Dues

The Colorado Chapter of the Wildlife Society, in an effort to stay current and offer the most benefit to our members, has had to address the first membership fee increase in nearly 15 years! There were many factors that influenced this decision, but the most significant was the need for membership database software to help streamline membership services and avoid confusions. This change will take effect June 1st, 2020 so hurry up and renew to make sure take advantage of the lower rates! The benefits of membership are numerous. <https://wildlife.org/colorado/membership/>

Student membership costs will not change.

See below for a list of membership prices:

1 Year Student Membership: \$10

1 Year Regular Membership: \$20

2 Year Regular Membership: \$35

3 Year Regular Membership: \$45

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

Board Members

CCTWS Board – March 2020

Officers

President: Nathan Galloway

Past-President: Jesse McCarty

President-Elect: Nate Bickford

Treasurer: Matt Rustand

Secretary: Mark Fletcher

E-mail Contact

nathanlgalloway@gmail.com

jesse.mccarty@usda.gov

Nate.bickford@csupueblo.edu

mrustand@blm.gov

Fletcher@pinyon-env.com

Executive Board: Regional

NE Representative: John Hughes

John_hughes@fws.gov

NW Representative: Kathy Griffin

kathy.griffin@state.co.us

SE Representative: Cassidy English

Cassidy.english@state.co.us

SW Representative: Marcella Tarantino

Marcella.fremgen@usda.gov

Executive Board: At-Large

Andrew Don Carlos

Andrew.don_carlos@colostate.edu

Sara Kramer

Sara.kramer1626@gmail.com

Casey Setash

csetash@rams.colostate.edu

Emily Latta

elatta@blm.gov

CCTWS Meeting Minutes

CTWS 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/>

Treasurer's Report

CCTWS Treasurer's Report

Checking account - \$51,326.33

However, payment for the Hilton Fort Collins has yet to clear
(\$41,977.50)

Candace Taylor Money Market - \$36,466.39

Savings Account – \$508.83

Committees and Chairs, March 2020

Committee	Chair	Chair Contact
Standing Committees		
Conservation and Land Use Review	Randy Ghormley	rgormley@fs.fed.us
Information and Education	Joel Humphries	jhumphries@blm.gov
Annual Meeting Program	CCTWS Board	
Finance and Fund Raising (Auction)	Vacant	
Audit	Vacant	
Legislative Review	Katie Bradfish	katherineb99@msn.com
Wildlife Management	Matthew Hanson	mhanson6@gmail.com
Newsletter	Alex Fortney	alexandra.fortney@western.edu
Nomination/elections	Nate Bickford	nate.bickford@csupueblo.edu
Policy/Resolutions	Nate Bickford	nate.bickford@csupueblo.edu
Professional Awards	Michelle Cowardin	Michelle.cowardin@state.co.us
Student Awards	Nick Kaczor	nick_kaczor@fws.gov
Membership	Courtney King	courtney.king@western.edu
Ad Hoc Committees		
Certification	Rob Schorr	rschorr@lamar.colostate.edu
Conservation Affairs Network Rep.	Erin Blair	erin.blair16@gmail.com
Historian	Danguole Bockus	Danguole_bockus@nps.gov
Photographer	Max Canestorp	Kmax1350@mesanetworks.net
Small Grants and Travel Grants	Emily Latta	elatta@blm.gov
Web Page, Social Media (Marketing)	Aleshia Fremgen	Aleshia.fremgen@westernalum.org
Professional Development Programs	Vacant	
Student Affairs and Mentoring	Katie Gray	katieegray789@gmail.com
Representatives		
CSU Student Chapter	Remi Pattyn Liaison: Andrew Don Carlos Advisor: Larissa Bailey	remipattyn@yahoo.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
CSU Pueblo Chapter	Rocky Spencer Liaison: April Estep Advisor: Claire Ramos	Rlspencer2018@gmail.com April.estep@state.co.us claire.ramos@csupueblo.edu
CMPS President	Andrea Orabona	Andrea.orabona@wyo.gov
CMPS Representative to TWS	Bob Lanka	Bob.lanka@wyo.gov
CCTWS Representative to CMPS	Nathan Galloway	nathanlgalloway@gmail.com

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!