



Canadian Section of The Wildlife Society

"The mission of the Canadian Section of The Wildlife Society is to foster excellence in wildlife stewardship through science and education among wildlife professionals in Canada"

Newsletter

February 2014

Vol. 7, No. 1

PRESIDENT'S MESSAGE



Evelyn Merrill
Professor, Department of
Biological Sciences
University of Alberta,
Edmonton, Alberta

The animals really have this migration thing right. But as a scientist I had to test the migration hypothesis personally so I headed to Baja, Mexico over our reading week. It absolutely increased my fitness. The telltale signs were increased body fat, good nights of sleep, a recharge in vitamin D levels, and experiences to make me wiser if I ever bumped into the incredible *whale shark* in the middle of the night. But whether you head south or to the ski trails I hope you have taken time this winter from your everyday trials to enjoy the wonders of nature because it is indeed reinvigorating to see the incredible diversity of life.

The Canadian Section Annual General Meeting in Quebec is coming up at the end of March. Darren Sleep and Orphé Bichet have put together an engaging program as you can see. I am also looking forward to the Student Quiz Bowl and the Sugar Shack experience. Ken Williams, Executive of Director of TWS is making his way north to join us and we will have a chance to visit with him about a number of Canadian issues in our Business Meeting early Sunday morning. We will be discussing a number of other Section issues and some minor changes to the Bylaws need to be voted on. I

hope to see many of you there! If there are other issues you want discussed at the Business Meeting please let me know.

So now here is my plea to you for this newsletter. If you have not completed the **CANADIAN SECTION PLANNING SURVEY...PLEASE DO COMPLETE IT!** This survey will give us important information for how to improve our membership benefits and for moving the Section forward in the next 5 years. We have extended the deadline until **10 March 2014** to complete the survey. I realize there have been a few glitches so if you stopped the survey before being done and got kicked out – just start again. Or if you tried to enter the draw for the free 3-year Membership in first 24 hours the survey was open and could not, just send me your name and I will enter your name. The survey results will be summarized and discussed at the Business Meeting in Quebec and later posted on the web.

Canadians are world leaders in wildlife conservation and we want to recognize our colleagues and other fellow Canadians in their tireless efforts on this front. The Wildlife Society has a variety of awards to do just this, whether it is for a dedicated group, or professional. The Awards are listed later in the newsletter. Please step up to nominate one of the many Canadians that are well deserving of these awards. **Award deadlines are 15 March 2014**—less than 2 weeks away!

The Section's Committees have been busy. The Conservation Affairs (*Jim Allen*, Chair) recently commented on the Amended Recovery Strategy for the Greater Sage Grouse in Canada. The Education Committee (*Karl Guyn*, Chair) has completed the final schedule of this year's successful Webinars (see this newsletter). The Awards Committee (*Michael Gillingham*, Chair) is pursuing a new award called the Life-time Achievement Award. This is a Section award that recognizes the outstanding contributions of an individual to wildlife biology, education and or

management in Canada. The terms of reference for the CSTWS Historian (*Merlin Shoemith*) are now approved. A new handbook for the Secretary-Treasurer position is now in draft form.

We have also had a number of personnel changes. Jennifer Sheppard has been our fearless leader this year in the Secretary-Treasurer position. Jenn is heading to the southern hemisphere to pursue her studies and career further. Jenn has been a long-time contributor to the Canadian Section and the real brains behind the scenes this year. She has done a SMASHING job on all fronts. A *thank you* seems inadequate to recognize her efforts, so I told we would keep a wildlife job open for her somewhere in Canada when she returns. Stepping up as the new Secretary-Treasurer is Matt Dyson. Matt has been our web master for a number of years and our Student Representative on the Executive this last year. He is well versed to take on his new duties...*thanks* Matt! I also would like to recognize Rachel Crowhurst for stepping in for Art Rodgers in sending out the Canadian Clips. Please be patient in some of the addresses and email changes that need to take place with these changes.

Those of you who would like to get more involved with the Canadian Section we have a number of openings on committees so please let either myself or in-coming President, Darren Sleep, know! This is a geographically diverse Section and it takes wide network to make the Section effective so please join in. À bientôt!

CANADIAN SECTION REPRESENTATIVE'S REPORT



Art Rodgers, Ontario Ministry of Natural Resources
(art.rodgers@ontario.ca)

It's been a long, cold, snowy winter so far but the folks at TWS headquarters have been so busy with all the recent staffing changes I doubt they have noticed. At the end of October, Chief of Staff Darryl Walter announced that he would be moving on after 5 years of dedicated service to TWS. TWS Council and Executive Director

Ken Williams launched a search for a replacement and received an overwhelming response to the advertisement for the position. Following a herculean effort to review the enormous number of applications and interview candidates, the search committee, with the approval of an ad hoc team of Council representatives, selected Mr. Ed Thompson as the new Director of Membership, Marketing, and Conferences for TWS commencing February 14. Mr. Thompson has a long record of involvement in association management and leadership at the directorate and vice-presidential level, with a strong background and experience in membership development, marketing strategy, and conferencing. We look forward to working with Mr. Thompson, especially as we move toward hosting the TWS Annual Conference in Winnipeg in 2015.

As I reported previously, the TWS Government Affairs Department has been working on the development of a TWS Conservation Affairs Network. A few months ago Terra Rentz, the Deputy Director of Government Affairs and Partnerships, announced her departure to pursue a master's degree at SUNY/Syracuse University in public policy, but before she left she provided a background presentation to be used by Section Representatives at their upcoming AGMs to provide more information to members – I will be making that presentation at our Canadian Section AGM in Québec City at the end of March (you have registered and made plans to attend haven't you!?). Terra's experience and enthusiasm will be missed but Director of Government Affairs and Partnerships Laura Bies successfully conducted a search for a replacement and recently announced that Keith Norris will start as Deputy Director on February 17.

At its October meeting, TWS Council approved a new Development Officer position to focus on grants, donations, membership expansion, and outreach to potential partners of TWS. The intent of this position is to work with TWS officers, members, and especially the Membership, Marketing, and Conferences staff, to build membership, connect more effectively with TWS partners, and to secure funding from a range of sources including government grants, private foundations, corporate donations, and individuals to enhance our financial status. Again there was an enormous response and Hedy Ross was hired and began this new position on February 24.

The mid-year TWS Council meeting will be held in Denver, Colorado, 9-10 March 2014, in conjunction with the North American Wildlife and Natural Resources Conference and the various standing and ad hoc committees are scrambling to get their interim reports submitted prior to the meeting. Here is a very brief synopsis of some of the activities that have been

undertaken by a few of the committees I am involved with;

- The Deer Breeding Ad Hoc Committee has submitted a proposal for a Symposium at the 2014 Annual Conference titled “Biological, economics, social, and ecological implications of captive deer breeding in North America”. The Symposium is sponsored by the SE Section of TWS; the new Hunting, Trapping and Conservation WG; and the Wildlife Diseases WG.
- The Future of Journals Ad Hoc Committee is compiling information on new trends in electronic publishing and open access journals, evaluating funding options through traditional reader-pay systems versus open access systems and expanded publishing opportunities through electronic-only outlets. The committee is also considering the role of evaluation measures such as traditional journal impact factors versus other measures and their potential application to future TWS publications.
- The Diversity Subcommittee is looking at potential changes in member services and benefits to better accommodate the changed and changing demographics of TWS, including the recommendations from the 2013 WOW symposium and professional development symposium at the Annual Conference in Milwaukee.
- The Improvement of Agency Biologist Membership Ad Hoc Committee is planning a survey of state, federal, and provincial agency biologists, AFWA members, and TWS state/provincial chapter members to understand what beliefs or perceptions are inhibiting them from being members at the parent society level and what can be done to increase their participation in the parent society.
- Last year the TWP Ad hoc Committee brought forward new Rules of Governance for *The Wildlife Professional* (TWP) that were approved by Council, and as the newly created TWP Publications Subcommittee Liaison to Council I have been involved with the implementation of their recommendations. Of particular interest will be the restructuring of the Editorial

Advisory Board over the next few months with plans to recruit an EAB member from each TWS Section and TWS working groups. TWP has included numerous Canadian articles and news items and is an important medium for us to share our Canadian experiences with wildlife professionals across North America – for that to continue we need strong representation on the EAB and I hope you will consider stepping up to fill that role when the opportunity arrives.

Lastly, I want to thank Rachel Crowhurst for volunteering to take over sending out the “Canadian Clips” every week. All of the feedback I received indicates our CSTWS members appreciate them and it’s always great to see someone willing to give some of their time for the benefit of us all – thanks Rachel!

Hope to see you at our Canadian Section AGM in Québec City at the end of March! Nous vous attendons en grand nombre à Québec!

CANADIAN SECTION NEWS & ANNOUNCEMENTS

Canadian Section AGM, March 28-30, 2014!

CANADIAN SECTION OF THE WILDLIFE SOCIETY		
Friday, 27 March 2014		
17:00	Registration	
17:30	Student Quiz Bowl	
Saturday, 28 March 2014		
		Plenary Session
8:30	Welcome & Introductions	
8:15	Ken Williams The Wildlife Society	<i>Canadian issues in The Wildlife Society</i>
8:30	Lu Carbyn Univ. of Alberta	<i>The history of wildlife management in Canada</i>
9:00	Michael Anderson Ducks Unlimited Canada	<i>The development and evolution of the North American waterfowl management plan in Canada</i>
9:30	Valérie Coustois, Aboriginal Leadership Initiative	<i>Wildlife and culture: first nations and wildlife in Canada</i>
10:00 BREAK		
10:30	Martin Hebert, Université Laval	<i>The forest and wildlife: a history of forest management in Québec</i>
11:00	Yolanda Wiersma, Memorial Univ., Newfoundland	<i>Animal tracks to tracking devices: the changing face of technology in wildlife management</i>
11:00	PANEL DISCUSSION	
12:00-13:30 LUNCH ON YOUR OWN		
Room A Ungulates		
Open Paper Session		
13:30	E. H. Merrill	<i>Incorporating movement-based landscape connectivity into assessing risk of chronic wasting disease spread in Alberta, Canada.</i>
13:50	J. M. Meekie	<i>Site familiarity and the ideal free distribution: density-dependent patch fidelity affects distribution of free-ranging bison.</i>
14:10	C. Losier	<i>Functional responses in habitat selection reduce the survival of threatened caribou.</i>
14:30	A. L. Basulita	<i>Climate change and caribou: how winter climate affects survival of migratory caribou.</i>
14:50 COFFEE BREAK		

15:20	J. H. Richard	Space use variations of an alpine ungulate during winter: the relative influence of snow cover and fresh snow.
16:00	M.-H. St-Laurent	Prey switching by wolf in a moose-caribou system: empirical evidence of apparent competition.
16:20	M. Sigaud	Energy gains drive hison into an ecological trap.
16:40	M. Boyce	Behavioural and direct trophic cascades in a dynamic predator-prey system.
Room B Multi-species Open Paper Session		
13:30	Bridger, M.C.	Cumulative effects of landscape change in the abundance and distribution of furbearers in central British Columbia.
13:50	Unruh, J.H.	Effects of oil development on grassland songbirds in southeastern Saskatchewan.
14:10	Le Borgne, H.	Écarts déterminants l'abondance des populations de campagnols à dos roux devant la succession forestière.
14:30	Rodgers, J.A.	Effects of shallow gas development on relative abundances of grassland songbirds in a mixed-grass prairie.
14:30 COFFEE BREAK		
15:20	Kruckstul, K.E.	Is niche separation of wolves and cougars realized in the Rocky Mountains?
16:00	O. Bichet	Can habitat management for threatened forest-dwelling caribou preserve biodiversity in boreal ecosystems?
16:20	Sleep, D.J.H.	Roads or walls? Towards a better understanding of the effects of resource roads as barriers to wildlife movement.
16:40	Trout, L.M.	Testing a risk-based method of defining <i>deceptable</i> units for extinction risk assessment.
Room A		
8:30	Canadian Section Business Meeting	
10:30 COFFEE BREAK		
11:00	Christien, L.-P.	White-tailed deer remote sensing using unmanned aircraft vehicle (UAV) imagery.
11:20	Rodgers, A.	The secret lives of woodland caribou revealed by animal-borne video cameras.
11:40	Student Presentation Awards	
11:55	Conference Closing Safe travels!	



Canadian Section of The Wildlife Society

"The mission of the Canadian Section of The Wildlife Society is to foster excellence in wildlife stewardship through science and education among wildlife professionals in Canada"

Canadian Section of The Wildlife Society, 2014 Elections Ballot

PRESIDENT-ELECT NOMINEE:

PRESIDENT-ELECT:
Dr. Mark Boyce

ACCEPT REJECT

VICE PRESIDENT NOMINEES:

<p>VICE PRESIDENT: Ashley McLaren</p> <p><input type="checkbox"/> VOTE</p>	<p>VICE PRESIDENT: Dr. Jennifer Psyllakis</p> <p><input type="checkbox"/> VOTE</p>
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PLEASE MAIL BALLOT TO: Dr. Kathreen Ruckstuhl, Past President CSTWS, Department of Biological Sciences, University of Calgary, Calgary, Alberta, T2N 1N4 or e-mail to: kruckstu@ucalgary.ca DEADLINE for voting is March 20, 2014

Voting for CSTWS executive

The CSTWS has sent out voting ballots for the positions of President-Elect and Vice-President for the upcoming March 2014 terms. If you have not done so already via email or regular post, please send me your vote no later than March 20th. The ballot is below.

Thanks! Kathreen Ruckstuhl, Past President, CSTWS

Membership and Recruitment Committee News

Membership Drive-2013 . . . We have a Winner!!

Last year, we asked members to refer their friends and colleagues for a chance to win a Free CSTWS Membership for 1 year. As new members purchased their memberships, referrals began to accumulate. All names were entered into a draw and a winner was selected.

Congratulations to **Elizabeth Perry** from St. John's, NL for winning our membership drive for 2013. Elizabeth was awarded with a free 1-year membership to the Canadian Section.



The Executive would like to thank all members who referred friends and colleagues to the Canadian Section. Our membership continues to grow and without your support we would not have a voice in Canada. Although our newest membership drive has moved away from referrals, we encourage all our members to continue to refer friends and colleagues to the Canadian Section.

Now . . . on to the 2014 Membership Drive

This year, the Membership and Recruitment Committee will focus on recruiting students. Brochures highlighting

the benefits of student memberships will be distributed across the country to various schools and Student Chapters.

We will be giving away **10 Free Memberships** to students who respond to our emails! If you are responsible for a distribution list or would like to ensure your school is contacted, please email csoftws@gmail.com



WE NEED YOUR HELP . . . Membership and Recruitment Committee

The membership of the Canadian Section continues to grow and as it does, the membership list and responsibilities also grow. We are looking for new committee members to help our current Membership and Recruitment Committee members with their important functions, which include:

- i) Reminding members when their memberships are about to expire
- ii) Sending invoices and welcome letters to new and renewed members
- iii) Increasing membership numbers through annual membership drives.

If you are interested in a more prominent role in the Canadian Section and would like to be part of our membership growth and recruitment, please contact the Canadian Section: csoftws@gmail.com.

The Wildlife Society Annual Conference in Winnipeg 2015

**(by Merlin Shoosmith & Don Sexton
Co-chairs, Arrangements Committee)**

1. A quarterly meeting of the Arrangements subcommittees and interested TWS members was held on January 22, 2014. Updates on the formation of new subcommittees and progress made by existing subcommittees were provided. It was noted that the Fun'd Raiser that was planned for The Ranch Saloon on March 15th had to be cancelled after the facility closed its doors.

2. Another Fun'd Raiser is being planned at the Pembina Hotel on March 15th after the subcommittee scrambled and found a location that would substitute for The Ranch Saloon.
3. A new brochure has been prepared about the 2015 conference copy attached. It will be used by all subcommittees, principally by Fund-Raising.
4. A co-chair of Field Trips, Serge Scrafield, attended the Texas Chapter of TWS AGM since he was planning to be in Texas during the same time as their mid-February meeting. He had received an invitation to attend and talk informally about field trips that we were planning for 2015. There were around 700 wildlifera registered for the Texas Chapter AGM.
5. Rick Baydack has been forming the Program Committee and subgroups. Mark Boyce has been named as Program Chair. Others include Art Rodgers to chair Symposia and Brent Patterson to chair Contributed Papers. Currently there will be two plenary sessions, one related to the Boreal Forest.
6. We are still open for volunteers for the Arrangements subcommittees from the Section and suggestions for fund-raising across Canada for this important event.

The Wildlife Society's mission is to represent and serve the professional community of scientists, managers, educators, technicians, planners, and others who work actively to study, manage, and conserve wildlife and habitats worldwide.



The Wildlife Society was established in 1937 and just celebrated its 75th year. It is an organization of over 11,000 wildlife professionals of all backgrounds and interests.

The 22nd Annual
Conference of
The Wildlife Society

The Wildlife Society is committed to a world where humans and wildlife co-exist. The members of The Wildlife Society manage, conserve, and study wildlife populations and habitats. We create opportunities for this to occur by involving professional wildlife managers, disseminating wildlife science, advocating for effective wildlife policy and law, and building the active support of an informed citizenry. TWS members are active across the United States, Canada, and Mexico, as well as internationally.

Dr. Rick Baydack
2013-14 President Elect, The Wildlife Society
University of Manitoba
233 Wallace Building
Winnipeg, Manitoba, Canada, R1T2N2

October 17-22, 2015
in Winnipeg, Manitoba



www.wildlife.org

Approximately 1,500 wildlife professionals and students will visit Winnipeg, Manitoba from October 17-22, 2015 for The Wildlife Society's 22nd Annual Conference.

The Manitoba Chapter of TWS and Tourism Winnipeg will host this international conference, the largest annual gathering of professional wildlife managers and students in North America.



"The economic spin-off for Winnipeg are tremendous with estimated delegate spending of \$1.5 million on hotels, restaurants, shopping, and attractions and more."

- Tourism Winnipeg

The Conference opens with a reception on Saturday and continues until the closing informal banquet, members' forum, and awards ceremony, on Thursday. Within that time, the program consists of:

- Opening Plenary
- Concurrent technical contributed papers and poster sessions
- Symposia
- Working group meetings
- Affiliate organization meetings
- Student quiz bowl
- Photography contest
- Trade show and exhibition
- Various sponsored receptions, meals, leaders lunch, and committee meetings.

The purpose of the Annual Conference of The Wildlife Society is to:

- Provide the best venue available to wildlife professionals for interaction and networking
- Make the conference affordable
- Provide a high quality education program



www.wildlife.org



Call for 2014 TWS Awards

The Wildlife Society has numerous awards that recognize individuals and groups who have made significant contributions to TWS and wildlife conservation and/or management. Please consider nominating a worthy Canadian wildlife professional, teacher, wildlife conservation group or organization, or student chapter for these Awards – we have many Section members who deserve consideration for these awards, but the nominations need to come from you.

TWS awards include:

- **Aldo Leopold Memorial Award** recognizes a well-established and distinguished career that has been of undoubted significance to the cause of wildlife conservation. Due: 15 March 2014.
- **Caesar Kleberg Award For Excellence in Applied Wildlife Research** is intended to honour an individual's record of applied research over a substantial period of time. Due: 15 March 2014.

- **Chapter of the Year Awards** recognizes exceptional achievements by these units of TWS and is self-nominated (often self-nominated). Due: 15 March 2014.
- **Conservation Education Award** recognizes efforts that influence public opinion in a constructive manner and is given in each one of the following categories on a four-year-rotation basis: writing, audio-visual works, media, programs. Due: 15 March 2014.
- **Diversity Award** recognizes an individual or organization for outstanding efforts in promoting ethnic and gender diversity in the natural resource professions, especially wildlife conservation and education. Due: 15 March 2014.
- **Excellence in Wildlife Education Award** celebrates exemplary teaching and contributes to the improvement of wildlife education by honoring individual faculty members. Due: 15 March 2014.
- **Group Achievement Award** acknowledges an organization's outstanding wildlife achievement that is consistent with and/or assists in advancing the objectives of TWS. Due: 10 April 2014.
- **Honorary Memberships** recognize continuous outstanding service to any area or areas of concern to TWS. Due: 15 March 2014.
- **Jim McDonough Award** honours a person who has made, or is making, a significant contribution to the wildlife profession by being an active member/participant of TWS, especially at local levels (i.e., Chapter and Section). Due: 15 March 2014.
- **Rusch Memorial Game Bird Research Scholarship** is intended to benefit students who are members of TWS and who show promise as wildlife teachers, researchers, and managers. And are awarded to in-course master's students (in even numbered years) or doctoral students (in odd numbered years) in wildlife biology, zoology, ecology or a related discipline at a university in North America. Due: 15 March 2014.
- **Special Recognition Service Award** honours any person or group who has made an outstanding contribution to: the wildlife

profession; the general areas of wildlife conservation, management, or science; or a specific area of endeavor, species, community, ecosystem, region, etc.
Due: 15 March 2014.

- **Student Chapter Advisor of the Year** is given to an outstanding Student Chapter Advisor each year and is usually self-nominated. Due: 30 June 2014.
- **Wildlife Publication Awards** (recognize outstanding publications in the areas of monograph, book, and editorship) [To submit a nomination, send a cover letter explaining why the work deserves an award along with a copy of the publication to each Committee member (listed at <http://wildlife.org/who-we-are/awards/wildlife-publication>). Due 1 March 2014.
- **TWS Fellows Program** recognizes members who have distinguished themselves through exceptional service to the wildlife profession) – a maximum of two TWS Fellows are awarded per Section per year. Due: 15 February 2014.
- **Distinguished Service Award** awarded within the [Canadian] Section to an individual that has been active in TWS for at least 20 years [and is still an active member] who has served TWS in a way that furthers the goals of TWS. Due: 15 March 2014 to Canadian Section (see below).

All awards are submitted directly to The Wildlife Society with the exception of the last award. The final nominee for the **Distinguished Service Award for the CSTWS** is nominated by the Canadian Section following a selection process by the CSTWS Awards Committee. Nominations for the Canadian Section's Distinguished Service Award should be sent to the Canadian Section Awards Committee Chair, Mike Gillingham (michael@unbc.ca).

The CSTWS Awards Committee can help review nominations for Chapter, Student Chapter, and Student Chapter Advisor of the Year awards.

All other awards can be nominated by a TWS section, Chapter, Working Group, or individual TWS member (sometimes including self-nomination) directly to the appropriate TWS Awards Committee. Because the CSTWS Executive would like to ensure that deserving members of the Canadian Section are nominated for all possible awards, please consider letting the Chair of the CSTWS Awards Committee (Mike Gillingham –

michael@unbc.ca) know about any planned nominations of a Canadian Section member for a TWS award.

Note: Submission deadlines have not yet been announced for the 2014 awards, but the dates above are based on posted **2013** deadlines. Full details of each award can be found at <http://wildlife.org/who-we-are/awards>.

CSTWS Student research

Lena Vanden Elsen, Western University, Department of Biology, Long Point Waterfowl
lvandene@alumni.uwo.ca



Climatic variability is known to influence the availability of habitats necessary to maintain wildlife populations, and shifts in ranges have been observed when animals attempt to match resource needs with availability. Some bird species adjust their migration based on annual variation in weather; where as other species may use endogenous cues (e.g. day length). With global climate change it is possible for mismatches to occur between timing of migration and resource availability in species using endogenous cues and it is important to identify which species' may be susceptible.

My research focuses on investigating how day length and weather variables (e.g., snow and temperature) influence autumn and winter distributions of dabbling ducks (*Anas* spp.) in the Atlantic and Mississippi Flyways of North America. Weather severity indices (WSI) were previously developed for mallards (*A. platyrhynchos*) using waterfowl survey data from Missouri. For my study, I am taking these previously developed WSIs and investigating whether they apply on a broader spatial scale and among different species of

dabbling ducks.

I have collected autumn and winter waterfowl survey counts from locations throughout the Atlantic and Mississippi Flyways of North America. I am using an information theoretic approach to mixed modeling and I will be analyzing which models explain the greatest weight in variation among sites. I will then calculate WSI thresholds (i.e., the point on the index where the rate of change in ducks leaving an area is greater than ducks staying) and apply these threshold values to future climate change models to estimate future distribution of my study species.

This study will have applications for wildlife managers in northern and southern locations of North America, whether it is determining if a particular northern locale may support year-round waterfowl use or, for southern locations, determining when dabbling ducks will arrive annually and how the timing of arrival may differ among species. This project has particularly important implications for Ontario, since recent and substantial increases in numbers of overwintering waterfowl in the great lakes region could have implications for resource availability for late wintering and spring migrant waterfowl.



CSTWS webinar series

*Justina Ray, Wildlife Conservation Society Canada
March 28*

Title: “Challenging assumptions and definitions of extinction and recovery in the conservation of species at risk”

Extinction risk and recovery represent the on- and off-ramps, respectively, for species to be recognized and receive attention under species-at-risk legislation. Both

concepts, however, pose important challenges with respect to how they are interpreted and the role they each play in implementation of species-directed conservation policies and interventions. Preventing extinction is the primary focus of most endangered species legislation and is central to assessment and listing criteria. Extinction risk has in turn influenced how success is measured, such that recovery -- undefined in most acts -- is often framed in terms of avoidance of the ultimate loss of a species. Yet, this narrow perspective tends to ignore alternative population states that are key to understanding biodiversity loss, including species with populations that remain at low levels for long periods of time, those that decline at precipitous rates from high abundance levels yet remain numerous, or those that are only ecologically functional at relatively high densities. In this presentation, I explore challenges and limitations of common assumptions that underlie extinction and recovery as concepts central to combating biodiversity decline, and highlight caribou as a case study for defining recovery in particular.

The format will be the same as last year, where about a month before the presentation we will provide an abstract/summary of the talk to distribute to our members and put on our website - at that time, we will also ask members interested in hearing the presentation to send a message to our secretary; i.e., register for the webinar - will send out an email notice ahead of time announcing the webinar and asking people to RSVP.

“Have you recently heard a good speaker? Or is there a topic you have always wanted to learn more about? If so, send your suggestions to Karla Gwyn, k_gwyn@ducks.ca for possible inclusion in the CSTWS Webinar series”

We are now on Facebook!

Check our new CSTWS Facebook page and join us at <https://facebook.com/cstws>



CANADIAN SECTION PLANNING SURVEY



The Canadian Section of The Wildlife Society was established in 2008 to provide a unified voice for wildlife professionals, students and publics in Canada while remaining affiliated with the highly successful parent organization in the United States. Over the past 6 years the Section has focused on building the membership, establishing governance, and expanding member benefits. We now have over 300 members who benefit from a variety of services and activities. The Section is proud of its past accomplishments, but it also wants to look to the future. To build a Section that continues to meet the membership's needs and expectations, we sent out a brief survey in January 2014 to ask your opinion on how to improve the member benefits and priority issues for the Section over the next years. We have extended the deadline to March 10th to fill out the online survey. If you complete the survey your name will be entered into a contest to win a 3-year free membership to the Section. Stay tuned!



Albert W. Franzmann And Distinguished Colleagues Memorial Award 2014

Inspired by the passing of our beloved colleague, mentor and friend Al Franzmann in February, 2009, and to honour all of those who have passed on and have contributed to our knowledge and understanding of moose biology and management, Alces has established the "Albert W. Franzmann and Distinguished Colleagues Memorial Award". The one-time award, valued at CDN \$1,500, will be given annually to a graduate student entering or continuing¹ in a Master's or Doctoral program at a recognized university in Canada or the United States.

The applicant's research should be directed toward studies of the biology and management of moose within their circumpolar distribution or other ungulates or mammalian carnivores overlapping their range.

Applicants are required to submit: (1) an official (signed and sealed) academic transcript of their complete academic record; (2) an up-to-date curriculum vitae; (3) a detailed description of the research to be undertaken (min. 4 pages, max. 10 pages) as would be prepared for a thesis advisory committee; and, (4) a short supportive letter from the student's graduate supervisor. Applications must be submitted² by **March 15** of the year in which the award is to be used. A committee of 3 past recipients of the Distinguished Moose Biologist Award will review applications and rank each submission. The recipient will be determined by consensus of the committee and their decision will be binding³. The recipient of the award will be announced at the Annual North American Moose Conference and Workshop⁴.

Recipients must acknowledge receipt of the award in any subsequent publications of their work and are strongly encouraged to publish at least some portion of their research in the journal *Alces* prior to or following completion of their graduate program.

Donations to support the "Albert W. Franzmann and Distinguished Colleagues Memorial Award" should be made payable to Lakehead University Alces Account # 50-1606-2051 can be sent to Dr. Art Rodgers². *Alces* is not a registered charitable organization or incorporated as a not-for-profit corporation and cannot issue receipts for income tax purposes.

¹ First-time applicants in the early phases of their research will be given preference. Previous unsuccessful applicants may reapply³. In the absence of suitable new applicants, consideration will be given to previous recipients pending submission of a progress report and recommendation by their graduate supervisor. Previous recipients interested in reapplying should contact Dr. Art Rodgers² after March 15 to find out if the award is still available. The deadline for previous recipients to submit a progress report and letter of recommendation will be April 15 of the year in which the award is to be used.

² Applications must be submitted to:
Dr. Arthur R. Rodgers
Ontario Ministry of Natural Resources
Centre for Northern Forest Ecosystem Research
955 Oliver Road
Thunder Bay, Ontario
Canada P7B 5E1
Telephone: (807) 343-4011
FAX: (807) 343-4001
E-mail: art.rodgers@ontario.ca

³ Failed applicants are welcome to reapply and must do so to be considered in a future competition.

⁴ The recipient does not have to be in attendance but all applicants are encouraged to take advantage of the *Alces* “Newcomer’s Travel Award” to attend the annual meeting.

CHAPTER NEWS

Alberta Chapter (Dee Patriquin, President)

2013 activities have focused on strategic planning, assessing priority service areas the Chapter can provide to our members, as well as conservation work, outreach activities and upgrading the membership database.

Strategic planning included a planning retreat with our executive, Evie Merrill (representing Canadian Section) and founding members of the chapter. We are in the process now of refining a wish list of strategic directions identified during that retreat, informed partly by a survey of our membership. The aim is to have the completed draft ready for our March AGM, where it can be approved and will set the direction for future executives. Thus far, professional development for students and practicing biologists, and conservation outreach and advocacy are emerging as focal areas.

The Conservation Committee continues to represent the Chapter on various provincial advisory committees and to provide comment on timely issues (e.g., the PFRA lands sale). Currently the committee is drafting a position statement on the new Provincial Wetland Policy. We have realized that advocacy is fast becoming a concern of the membership and the Committee has been actively working to inform and encourage members to voice concerns, where and when they can. The issue of advocacy within professional capacity is important enough to warrant more discussion with the membership and we have set this as the theme for our 2015 conference, to be introduced with a special presentation at our 2014 conference, and discussion at our AGM.

Key conservation outreach activities include our annual conference, an ongoing Species At Risk beer project and the Beaver Hills Bioblitz.

The conference is in Jasper March 7-9, 2014 with the plenary theme: Protected Areas Inside and Out: Landscape Management for Biodiversity Conservation. The beer project began last year with a local brewery. The idea is to raise awareness of species at risk (SAR) using special SAR labels and raise funds for conservation activities.

We are in the process of designing a new label for release in March, organizing a media launch and seeking additional stores for distribution. The January 19th, 2014 bioblitz is themed around “Meet A Biologist” and dedicated to the two biologists involved in a helicopter crash this spring. It offers opportunities for the public to gain an appreciation of wildlife conservation tools and work in the province and of conservation efforts of our partner organization, the Beaver Hills Initiative, in a regionally significant natural area east of Edmonton.

It also coincides with International Snow Day, and special events planned by our venue host (Strathcona Wilderness Centre) and partner ENGO (Nature Alberta). We’ve received great support from universities, local ENGOs and other organizations and looks like it will continue as an annual event. Next year will include the citizen science inventory component of the true ‘bioblitz’.

2014 Beaver Hills Bioblitz Photos





Thank you to everyone who supported and participated in the 2014 Beaver Hills Bioblitz! We had a stellar cast of biologists and volunteers that really went the extra mile to engage the public about their research and passion for wildlife and the outdoors. We received so many positive comments about how much people enjoyed the speakers and information presented. The Strathcona Wilderness Centre was such a pleasure to work with and provided expertise for large event planning and implementation; the staff, prep work and use of equipment were incredible. Good weather was in our favour, helping produce large crowds, young and old. We estimated that 400-600 people were in attendance during the afternoon based on the 200+ vehicle count. The Alberta Chapter of The Wildlife Society looks forward to planning future Bioblitz events to foster an appreciation of nature with the general public. Thanks again for your support and enthusiasm that made this event so wonderful!

Thanks to our Additional Partners:
 Alberta Conservation Association, Sobeys- Sherwood Park, Friends of Elk Island Society, Alberta Innovates, Alberta Tourism, Parks and Recreation, Alberta Environment and Sustainable Development

British Columbia Chapter (Michel Lavallee, President)

The British Columbia Chapter of The Wildlife Society ended 2012 with approximately 45 members and the Chapter membership has declined to 35 members. All of the Executive positions have been filled by a single individual, which has hindered the Chapter's ability to grow. Although repeated requests for assistance have been made to the membership, current members have been unwilling to fill Executive positions. This situation is unlikely to change over the next calendar year and the Chapter has stagnated. At the end of 2012, the organization that provided server space parted ways with the Chapter and we lost our website and have been unable to re-launch the website. A newsletter had been developed in the past for communication with members; however, the current Executive has not had the time required to develop a newsletter during 2013 and the membership has been unwilling to assist with publishing a quarterly newsletter. I am willing to continue as President-Secretary-Treasurer but I am not able to invest the time required to build the Chapter over the next year. The BC Chapter is in decline and the Chapter's long-term viability is uncertain.

***Trent University Student Chapter
(Morgan Hawkins, Secretary/Treasurer)***

Hello from Trent University's Undergraduate Chapter! This year has been an exciting time for our chapter. A time focused on growth, development and education. We have gone on various small scale adventures such as hikes, local zoo walks, bird watching and a catch-and-release fishing trip. In October students were able to participate in a fantastic hands on experience: the mist netting and banding of Northern Saw Whet Owls. As well one of our biggest trips to date will be to Toronto's new Ripley's Aquarium. Here students will get to interact with marine biologists. This is a unique experience because they will become informed on ichthyology, and all of its related components such as aquarium exhibit designs.

As stated above, not only are we focused on creating events for our members to get out doors, we are also focused on presenting them with real life success stories and networking possibilities. In the fall we hosted a meet-and-greet social for OMNR staff and Trent University faculty to come and talk to our members. The goal for this evening was for students to learn possible educational or professional pathways in life as well as to delve into the great benefits that having OMNR on campus grants us. Research topics were discussed in addition to future volunteer positions in labs and in the field.

Likewise we have invited several professionals to our monthly meetings to speak about their research and how they came to be where they are today. Janine McLeod spoke about the conservation focuses and the importance of the Alderville Black Oak Savannah. The severity of White Nose Syndrome was brought to us by Dr. Christina Davy. And the possibility of learning from the "landscape of fear" imposed by wolves on caribou in Jasper Park to help better manage Ontario's man-deer conflicts was presented by Keith Munro.

As the year continues into the second semester our goals are to increase the number of field trips we offer. We hope to get more students involved in the planning of these excursions so as to build interest in the executive positions for next year. We also hope to continue having guest speakers come and give talks about significant topics of study in Biology and Environmental Sciences today.

If you are interested in coming out for a day trip, speaking to our members or just getting in touch with me, please feel free to use the below email!

***Manitoba Chapter of the Wildlife Society
Chapter Report
(Dennis Brannen, President)***

- The Executive of the Chapter has been holding monthly meetings since September.
- On November 7, 2013, the Chapter held its Fall Mixer. The event was well attended with approximately 60 members attending.
- The Chapter Student Award was awarded in the fall.
- The chapter has established a Facebook page.
- The chapter submitted a position statement in support of the amended *Endangered Species and Ecosystems Act* in Manitoba.
- The Chapter has been busy organizing and planning its Winter Getaway scheduled for Feb 7-9, 2014.
- Planning has started for the Chapter AGM in March 2014.
- The Chapter has been busy with publishing it's fall Newsletter.
- The Chapter has begun to look at how to encourage more professionals to join the Chapter.
 - The Chapter plans to start looking at developing more opportunities/events that support professionals (lecture series, webinar, etc.)
- The 2015 TWS Conference Committee is well underway in their planning.

TWS NEWS

***TWS Conservation Education Award
committee***

This year we are honouring a contribution in the "Programs" category, and here is an excerpt from the call for nominations: The development of appropriate conservation education programs is an activity eligible for this honor. Nominees in the program category are typically, but not exclusively, supported by either public or private organizations promoting a broad framework of goals and objectives. Unlike the writings and audio-visual works categories, the program category recognizes those people involved in long-term, continuing efforts that support conservation education. Materials reflecting programs may be similar to those submitted to the writings and/or audio-visual categories.

Nominations are due by March 15, 2014 to Yanin Walker - yanin@wildlife.org. I have attached a more detailed description of this award, and readers can also go to <http://www.wildlife.org/who-we-are/awards/conservation-education>

Thank you!

Rachel Crowhurst
Faculty Research Assistant
Oregon State University
Department of Fisheries and Wildlife

TWS Accepting Applications For 2014 Leadership Institute

The Wildlife Society (TWS) is currently accepting applications for its Leadership Institute. The Institute's goal is to facilitate development of new leaders within TWS and the wildlife profession. The Institute will recruit 10-15 promising early-career professionals for a series of intensive activities and mentoring relationships. The focus will be on exposing the participants to the inner workings of TWS and increasing the number of active leaders in TWS and the wildlife profession.

From May until October, participants will engage in a series of activities to develop and expand their leadership skills. Institute members will attend the TWS Annual Conference in Pittsburgh (October 24-30, 2014) and participate in various activities, including mentoring and leadership workshop sessions. The Institute is free, and participants receive free registration and a travel grant for the conference. Participation in the Institute is geared toward early-career professionals, individuals 2 to 3 years out of school (either undergraduate or graduate school), currently working full-time in a wildlife professional position, and with demonstrated evidence of their leadership potential.

Also eligible are more recent graduates who have shown strong evidence of their leadership potential and those who are working while concurrently pursuing a graduate degree. All applicants must be members of TWS and a Chapter or Section of TWS. The selection committee will be seeking to create a diverse group with participants of varying gender, ethnic, and regional diversity. Selection will be based upon:

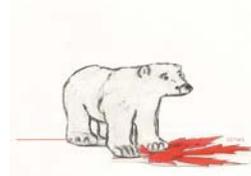
- An excellent academic record
- Demonstrated leadership capability or potential
- Demonstrated level of excellence in current position
- Commitment to and involvement in TWS

Preference will be given to individuals who are certified

as Associate Wildlife Biologists® or Certified Wildlife Biologists®, or who have submitted such an application to TWS. **Applicants must submit (in one PDF, excluding online application form and recommendation letters):**

- Application form (available at http://wildlife.org/dbadmin/Leadership_Institute_Application/index.cfm)
 - Cover letter with evidence of leadership capacity or potential, such as previous leadership positions held in TWS Chapters or Student Chapters or in other organizations
 - Résumé including a list of publications, awards, etc.
 - Academic transcript/s (scanned copy)
 - 2 letters of recommendation from supervisors, academic advisors, professors, or others in leadership positions with whom you have worked and who are familiar with your leadership potential, commitment to TWS, and commitment to wildlife management and conservation.
- Letters should be emailed directly to: Laura Bies (laura@wildlife.org), subject line "Leadership Institute Recommendation for [applicant last name]"
- An essay (1000 word limit), which succinctly summarizes (1) your concept of leadership, (2) your aspiration for your role within TWS in 5 to 10 years, and (3) why you are an ideal candidate for the Institute

Application deadline is March 21, 2014. Email all materials (except the application form, which is submitted online) in one PDF to: Laura Bies (laura@wildlife.org). Visit www.wildlife.org for more information (click on 'Professional Development' tab).



UPCOMING MEETINGS & WORKSHOPS

The Wildlife Society
Excellence in Wildlife Stewardship Through Science and Education

2014 Conference of the Alberta Chapter, The Wildlife Society

March 7th – 9th
Jasper, Alberta
Sawridge Inn

Plenary Theme:
Protected Areas Inside and Out:
Landscape Management for Biodiversity Conservation

New members especially welcome!
Connect with other biologists and learn how you can start making a change in Alberta's wildlife landscape.

<http://wildlife.org/alberta/>

Talks • Plenary • Banquet • Dance • Auction • Network • Student Conclaves

11th Annual Earth Day Colloquium, Western University, London, Ontario, Canada April 9-10, 2014

The annual Earth Day Colloquium (EDC) is a completely **FREE**, student run, two-day event celebrating research being conducted in the field of Environment and Sustainability. Embracing the interdisciplinary nature of this field, the Colloquium provides a forum for a broad range of topics in the Sciences, Engineering, Social Sciences, Arts, Humanities, Business, Policy, and Management.

The Earth Day Colloquium is seeking abstracts of up to 250 words for projects that relate to all facets of environment and sustainability. Presenters have the option of giving a full presentation (15 mins), a “speed talk” (5 mins), or a poster presentation. **The deadline for submissions is Friday, February 28, 2014.** All presentations will take place on April 10, 2014.

Attached is a poster and please visit our website for more information about EDC, registration, and abstract submission:

<http://www.uwo.ca/enviro/Colloquium/EDC2014/>

If you have any questions, please feel free to email uwo.earthday@gmail.com.



Ontario Ecology, Ethology, and Evolution Colloquium

May 8th – 10th at the University of Guelph

Abstract submission closes April 7

Proposals and abstracts welcome from undergraduate & graduate students, post-docs

**Early registration: \$70 for students & post-docs,
\$100 for faculty**
Register early and save!

Visit our website for more information:
www.uoguelph.ca/oe3c2014

Follow us!  www.facebook.com/oe3c2014
 @OE3C_2014



On behalf of the Organizing Committee for the 2014 Ontario Ecology, Ethology, and Evolution Colloquium (OE3C), I'm writing to announce that registration is now open for OE3C 2014 (May 8-10, University of Guelph). At this time, we welcome abstract submissions for oral or poster presentations, especially from undergraduate or graduate students and post-docs. Early registration will continue until March 21, and then late registration will run from March 22 to April 7. We encourage everyone to register early to increase the likelihood of receiving his or her preferred presentation type.

I've attached a call for abstracts flyer that includes a list of our confirmed plenary speakers. Once again, I'd really appreciate it if you'd assist us by distributing this information to students and researchers in your department/program. Abstract guidelines and other conference information, including details about registration fees and logistics, can be found on our website: <http://www.uoguelph.ca/oe3c2014/>.

If you have any questions about abstract submission or about OE3C 2014 in general, please feel free to respond to this e-mail. We're planning a stimulating and enjoyable meeting, and we hope that you'll be able to join us!

Regards,

Kate Eisen

OE3C 2014 Organizing Committee member;
OE3C2014@gmail.com



15TH NORTH AMERICAN
 CARIBOU WORKSHOP
 12-16 MAY 2014
 WHITEHORSE - YUKON

ANNOUNCEMENT –
 15TH NORTH AMERICAN CARIBOU WORKSHOP

12-16 May 2014
 Whitehorse, Yukon

The 15th North American Caribou Workshop will be held in Whitehorse, Yukon, from 12-16 May 2014, at the Kwanlin Dün Cultural Center on the banks of the Yukon River.

The theme of the workshop is "Caribou Conservation and Management: What's Working?" It has been three decades since the first North American Caribou Workshop was held in Whitehorse in 1983. With the 15th Workshop returning to Whitehorse, it is a fitting opportunity to examine what we have achieved, as managers, biologists, and other interested groups with respect to advancing caribou conservation and management. Have we been successful in our efforts to ensure caribou populations are being managed in a sustainable fashion? What has worked, what hasn't worked, and what can we do differently? A full day will be devoted to presentations dealing explicitly with conservation and management initiatives throughout North America, and elsewhere, that address these questions.

In addition to three days of technical sessions, there will be one day of workshops on May 12 and a field trip day on May 16. Registration and abstract submission will be conducted on-line through our website at www.2014nacw.ca, and will begin in July 2013.

On behalf of the organizing committee of the 15th North American Caribou Workshop, we look forward to an exciting meeting and hope to see you in Whitehorse in May 2014.

familiarity with the program to perform these analyses. A mixture of lectures and laboratory exercises will be provided. Participants will learn the basics of parameter estimation with likelihood theory, model selection with Akaike's Information Criterion (AIC), and the binomial and multinomial distributions. The Cormack-Jolly-Seber (CJS) mark-recapture, band (tag or ring) recovery, known fate, and closed captures models will be covered in detail. More advanced models will be described so that participants will understand the benefits of these models, but those models would not be covered extensively. Use of covariates, including individual covariates, will be covered with the CJS and band recovery models.

The clientele for this workshop are biologists with experience in the analysis of data from marked animals. The content is aimed at providing the participants with a solid background in the philosophy, theory, and analysis of data from marked animals. This is not a workshop for beginners to this subject.

Format of the workshop will be a combination of lectures and computer lab exercises. The workshop would start on Monday morning, 8:00am, June 2, 2014, and end Friday at noon (with some time during Friday afternoon to address specific user questions). Evening sessions would be provided as needed to cover the workshop material. A get-acquainted social will be held Sunday evening, June 5. We expect you to attend the Sunday evening social to become acquainted with the instructors and others taking the workshop. Thus, arrange your travel to arrive in Fort Collins by 5:00pm Sunday, June 1.



Première conférence conjointe
 SCEE · SCZ · SCL
 CSSE · CSZ · SCL
 First joint Conference

2014
 25 - 29 mai / May
 Montréal · Québec

Attendees are encouraged to bring their own data for analysis to the workshop, but should recognize that a thorough analysis will not be completed at the workshop. Given the amount of material to be covered, attendees likely would not be able to begin analysis of their own data until Thursday afternoon.

Intermediate-Level Program MARK Workshop

**June 1-6, 2014, Colorado State University, Fort
 Collins, CO**

This intermediate-level workshop will provide quantitative biologists and statisticians with the statistical background to understand the mainstream analyses performed by Program MARK, and the

Attendees also must bring their own notebook computers. We will not be using a computer lab, so you must have your own notebook. Be sure that you have the administrative privileges to install MARK on the notebook you bring (i.e., that you can install new software on the hard drive). If you have difficulty in bringing your own machine, contact [Gary](#) to work out something.

Cost for the 1-week workshop is \$1,200, with a reduction to \$1,000 for registered university students. This fee would include all course materials,

zip drive with Program MARK and supporting documentation and examples, and facilities for the workshop, socials, banquet, and morning and afternoon refreshments.

Gary C. White, CWB
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11th National Wild Turkey Symposium January 2016, Tucson, AZ

The National Wild Turkey Symposium seeks original research and synthesis papers on the ecology and management of wild turkeys for presentation at the Symposium and publication in the Proceedings. The Symposium occurs every 5 years and brings together state, federal and private wild turkey researchers, land managers, and enthusiasts to exchange ideas relative to ensuring sustainability of the wild turkey resource.

Contributed papers will be peer-reviewed. Submissions can include presentation of original results, case studies, and review articles of pertinent topics. The proposed areas of emphasis for the Symposium include: understanding the future of wild turkey habitat; delivery of science to affect policy; science behind hunter recruitment and retention; and maintaining sustainable wild turkey populations.

Process: Authors are asked to submit an abstract by **20 September 2013**. The abstract is limited to 300 words, not including the title, author(s), and author(s) affiliation(s). The abstract must include contact information for the corresponding author. Submit abstracts to: darren.miller@weyerhaeuser.com with "Wild Turkey Symposium abstract" in the email subject line. An Editorial Board will review all submitted abstracts and authors of selected abstracts will be asked to submit a full manuscript for consideration. Authors of accepted manuscripts are expected to present their work at the Symposium in Tucson. The Proceedings will be available at or soon after the Symposium.

Key Dates:

- Abstracts due Sept. 20, 2013
- Manuscripts invited Nov. 15, 2013
- Initial manuscripts submission due Aug. 8, 2014

For more Information: Please direct questions to the

Symposium Editor: Dr. Darren A. Miller, Weyerhaeuser Company, P.O. Box 2288, Columbus, MS, 39704; (662) 245-5249; darren.miller@weyerhaeuser.com. Please feel free to distribute this Call for Papers to appropriate contacts.

JOBS IN WILDLIFE

National Council for Air and Stream Improvement, Inc.

Job Description

Position: Caribou Research Technicians
(4 positions available)
Work Week: Non-exempt positions; 40+ hours per week to meet work demands
Duty Station: vicinity of Fort St. John and Fort Nelson, British Columbia (BC), Canada
Anticipated Duration: 4-5 months, mid-June 2014 through late-October 2014
Salary Range: \$10.25/hour with appropriate overtime pay. Positions do not qualify for benefits.

This study involves data collection on foraging dynamics and nutrition using tame, captive caribou. Our primary goal is to increase knowledge of how habitat and habitat management influence the nutritional well being of caribou. We will construct temporary pens in different habitats and transport the caribou to the pens for data collection in remote areas in northeastern BC. The project is a collaborative study between the University of Northern British Columbia (Prince George) and Canadian Operations of the National Council for Air and Stream Improvement (Montreal, QC). Technicians will be employed by NCASI-Canada.

Essential Job Functions:

1. Measure forage abundance and forest overstory characteristics using standard vegetative sampling techniques on the boreal forests of NE British Columbia around Fort Nelson and northern Rocky Mountains between Prince George and Fort St. John.
2. Assist with pen construction in different habitats, transport the caribou to the pens for data collection in remote areas in NE BC, and feed/care for caribou.
3. Assist with behavioral observations on tame caribou.
4. Required to live in the woods with the tame caribou, which includes camping out near pens in remote areas. A travel trailer (sleeps 4-5 mixed gender),

tents, camp stoves, and large jugs to hold drinking water will be provided. Some pots/pans/utensils are provided but we recommend technicians bring some of their own as well. Bear spray and bear bangers will be provided while on the job but these will not be available for personal use. Food and personal hygiene products will NOT be provided.

5. Work outdoors in inclement weather, which may occasionally be extreme. We will work 2 to 2.5-week periods in the backcountry with 2-4 days off between bouts. Workdays will range from 6 hours to 12 hours a day depending on what needs to be done. Due to the nature of this type of project, expect schedules (including days off) to change frequently...technicians need to be flexible. Biting insects can be relentless throughout the entire season. Also, ambient temperatures can be cool in higher elevations, and extended bouts of precipitation should be expected (last year we were snowed on in July and rained on 70% of the season). The project does not provide living facilities in town during periods of time-off...but the camper trailer and tents will be available at the base camp facility. Technicians must be flexible, but we will try to accommodate special needs for time off.
6. Perform technical project work with significant oversight from a manager or a colleague assigned this responsibility.
7. Demonstrate an ability to work effectively with others toward meeting the goals of the National Council.
8. Read, absorb, process, and communicate complex information.

Additional Responsibilities:

1. Undertake additional activities as assigned by Supervisor.

Minimum Qualifications:

1. Undergraduate degree (or near completion of a degree) in biology, animal science, or wildlife biology and/or suitable experience with identification of this region's flora.
2. Vehicles are supplied for work, but technicians must have a reliable vehicle to arrive at base facilities at Fort St. John. Travel will be on a mix of maintained and unimproved gravel and dirt roads...applicants must have experience driving large vehicles on backcountry roads.

3. Preference will be given to Canadians (or those with dual citizenship) but US citizens are also welcome to apply. US citizens must have a valid passport and must be able to obtain a Canadian work permit under NAFTA. NCASI will assist with this process.
4. A driving record such that you can be insured at standard auto insurance rates (a copy of your driver's license will be required if the position is offered).
5. Availability for work through late-October.

To apply submit:

1. Cover letter with dates of availability, status of reliable vehicle, citizenship, and status of valid passport (non-Canadian citizens only).
2. Resume detailing relevant professional experience along with information on education (GPA included)
3. Three professional references (include email addresses and telephone numbers);

to: Dr. Rachel Cook via email (preferred) rcook@ncasi.org or mail to PO Box 122, La Grande, OR 97850. Position posting closes March 20, 2014. NCASI is an equal opportunity employer.

PhD Assistantship – Tropical avian ecology and conservation decision-making: exploring the influences of landscape level disturbances on species distributions.

We are recruiting a PhD student in the fall of 2014 to work on a unique project focused on understanding geographic variation in avian population dynamics as a function of landscape level environmental stressors (e.g., land-use, climate) in order to inform conservation decisions. The student would join the Collazo and Pacifici research lab and would collaborate with an interdisciplinary team of ecologists (Collazo and Pacifici) and statisticians (Brian Reich and Eric Laber, NCSU) to develop and apply Bayesian hierarchical population and community level models to inform a conservation design project in Puerto Rico.

The centerpiece of this project is a habitat conservation strategy that ensures the long-term persistence of resident avifauna. The final outcome will be a decision model that will identify spatially explicit actions to increase the amount of protected land from the actual 8% to 15% in the island. The student will be housed in the Department of Applied Ecology at North Carolina State University (<http://projects.cals.ncsu.edu/appliedecology/>).

The project will focus on determining how

environmental factors and land-use affect demography of resident avian species in the west-central mountainous region of the island. We expect to develop new models aimed at optimizing sampling efficiency to estimate ecological metrics (i.e., occurrence probability, community species richness) that simultaneously account for spatial and temporal variability. There will be a strong quantitative component to the project, which will include developing hierarchical models in a Bayesian framework.

These advances and data will be used to assess trade-offs among alternative actions and lay the foundation for a monitoring program to evaluate the benefits accrued by implementing selected actions. Depending on research interests, the student may focus on approaches to dynamic species distribution modeling, scaling of environmental drivers of population dynamics within and among habitats and elevation gradients, or the application of demographic models to decision analysis and stochastic optimization.

There is also an opportunity to explore the implications of focusing on single species or groupings of species in the project's decision context. The student will be involved with collecting field data during the breeding season (although this is flexible depending on the student's interests) and to collaborate with and solicit input from personnel at the Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service and other federal and state-agencies tasked with management of habitat and resident avian species.

The ideal candidate will have a strong interest in avian ecology, birding skills, but also a strong background in quantitative ecology and population demography. Applicants with previous experience in the following areas will be given priority: estimating demographic parameters (e.g., mark-recapture), presence/absence (e.g., occupancy), Bayesian hierarchical modeling, stochastic optimization and decision-making for natural resource management (i.e., Adaptive management), managing large databases, and programming skills (preferably R, BUGS/JAGS, and GIS). An M.S. degree in Ecology, Wildlife Biology, Statistics, or other similar fields is preferred.

To apply:

Interested applicants should send a cover letter including a description of their research interests, CV including GRE scores and GPA, and names and contact information for 3 references to Drs. Jaime A. Collazo ([jcollazo@ncsu.edu](mailto:collazo@ncsu.edu)) and Krishna Pacifici (jkpacifi@ncsu.edu), or at 225 David Clark Labs, Department of Applied Ecology, North Carolina State University, Raleigh, NC 27695-7617. Applications

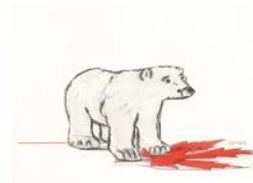
should be submitted by May 1, 2014 at the latest. We will review applications as they arrive.

Support

\$22,500/year stipend plus tuition and health insurance.

Your job add *here*

Please send job announcements for the newsletter or website to Kathreen Ruckstuhl at kruckstu@ucalgary.ca



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Lethbridge Community College: TBA

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Canadian Section of The Wildlife Society

"The mission of the Canadian Section of The Wildlife Society is to foster excellence in wildlife stewardship through science and education among wildlife professionals in Canada"

2014 Membership Application

The Canadian Section of The Wildlife Society invites you to join or renew your membership for 2014 – 2015. To join or remain a member for the upcoming year, please fill out this application form and mail it along with your dues to the address below.

Name: _____ Date: _____

Address: _____ City: _____

Province: _____ Postal Code: _____

Phone: _____ Email: _____

Affiliation: _____ TWS Member # (if renewing): _____

Annual Membership Dues: **\$10.00 (CDN/US)**

Membership can be purchased:

1. Mail In:

- Complete this application and mail money order or cheque (Please make cheque payable to "Canadian Section of The Wildlife Society") to:

Canadian Section of The Wildlife Society
% Matt Dyson
106-1558 Trossacks Ave.
London, ON
N5X 2P2

2. Online:

- To renew or join online visit TWS's secure website (only applicable to full members of TWS): <http://wildlife.org/membership>

- If you only want to sign up for the Canadian Section visit the CSTWS's secure website at:
<http://flash.lakeheadu.ca/~arodgers/cstws/>

If you have any questions please feel free to contact Matt Dyson by email (matt.e.dyson@gmail.com)