

2014 JOINT MIETUN

Estes Park, Colorado · USA 23-28 September 2014

Ornithologists from around the world ascend to the majestic Rocky Mountains for a meeting like no other. This joint meeting will feature six days of intellectually stimulating workshops, plenary talks, scientific sessions, and field trips that will facilitate the exchange of ideas and strengthen the science of avian biology.

Sponsored By

The American Ornithologists' Union, the Cooper Ornithological Society, and the Society of Canadian Ornithologists/Société des Ornithologistes du Canada

Co-Chairs

Susan K. Skagen and Sara Oyler-McCance U.S. Geological Survey, Fort Collins Science Center

www.birdmeetings.org/aoucossco2014

Ornithological Worldwide Literature (O.W.L.)

(www.BIRDLIT.ORG)

NEEDS YOUR HELP!

OWL is a small project of the AOU to provide a FREE, fully indexed, searchable database of citations to the recent ornithological literature on the World Wide Web. In the 21st Century, published scientific information that cannot be found at a later date is information lost to science. We must be able to find all those published papers related to our science and not just from those publications that are currently online. Now ornithologists around the globe can access this important resource at no cost. The database already contains ~80,000 citations, many of which go back >25 years. Over 1500 serial publications are cited in the database: from art history to meteorology to electrical engineering, besides the more obvious sources in the biological sciences, not just ornithology.

There are approximately 350 serials worldwide that are <u>not</u> presently being abstracted for OWL and that are of significant importance to ornithology. If you regularly use the OWL <u>OR</u> have any interest in helping in this important effort, please contact Jay Sheppard for additional information. We can really use your help as a volunteer abstractor for OWL. One needs only have access to their selected journals or other serials and to the Internet to help OWL.

Even if you are unable to help OWL, please feel free to access and search the database. Search results are downloadable into several formats.

Contact Info:

Jay Sheppard jmsheppar@aol.com
Managing Editor

Please feel free to pass this information on to others.

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Welcome

Welcome to the 2014 joint meeting of the American Ornithologists' Union, the Cooper Ornithological Society, and the Society of Canadian Ornithologists held at the YMCA of the Rockies in Estes Park, Colorado! Nestled against the spectacular mountain peaks in Rocky Mountain National Park, the YMCA of the Rockies is an ideal place for ornithologists to gather, learn, share, network, and be inspired by the majestic surroundings.

We have planned five days of intellectually stimulating workshops, plenary talks, and scientific sessions that will facilitate the exchange of ideas and strengthen the science of avian biology. The setting and atmosphere of the YMCA are awe inspiring, yet relaxed and comfortable. We hope that you take advantage not only of the natural beauty and amazing biological diversity of Rocky Mountain National Park, but also the "summer camp" feel of the YMCA. Come ready to take part in our wide variety of social activities. Interact with peers and make new friends at the opening reception and the closing banquet, enjoy the musical talent at the bird band jam, run yourself ragged in the All Out Ostrich 5K Race, bend your brain in the Quiz Bowl, bid early and often at the silent auction, and attend the various movies and field trips. Be sure to check the meeting web site daily for program updates, including cancelled papers: www. birdmeetings.org/aoucossco2014.

On behalf of the dedicated committees that have toiled during the past two years to pull together the various facets of this meeting, we are delighted that you are here, and please enjoy your time in Colorful Colorado!

- The 2014 AOU/COS/SCO Local Committee

Sponsoring Societies

This joint meeting is an international gathering of over 800 attendees and is being sponsored by AOU, COS and SCO-SOC.

American Ornithologists' Union

Founded in 1883, the American Ornithologists' Union is one of the oldest organizations in the world devoted to the scientific study of birds and is the largest and most diverse ornithological society in the New World. Although primarily an organization for professional ornithologists, it welcomes to its ranks many students, conservationists, birders and others who cherish the birds of the world. The mission of the AOU is to advance the scientific understanding of birds, to enrich ornithology as a profession, and to promote a rigorous scientific basis for the conservation of birds. Its publications are the heart and soul of the AOU and are actively overseen by a committee of scientists which ensures scientific integrity, professional management, and fiscal health.

Website: http://www.aou.org

Cooper Ornithological Society

The Cooper Ornithological Society is one of the largest ornithological societies in the world. COS has been in existence since 1893 and the name commemorates an early California naturalist, Dr. James G. Cooper. The Cooper Ornithological Society seeks to advance the scientific study of birds and their habitats through its meetings, its sponsorship of symposia and workshops, and its publications. The objectives of the COS are to encourage and support the scientific study of birds; to disseminate ornithological knowledge through publications, meetings, and direct communication among ornithologists; to encourage and spread interest in the study of birds; and to encourage and support the conservation of birds and wildlife in general.

Website: http://www.cooper.org

Society of Canadian Ornithologists / Société des Ornithologistes du Canada

The SCO-SOC is an organization of Canada's ornithological community. The primary role is to encourage the study of birds as an important first step towards preservation, conservation and public appreciation. The society is open to anyone who is interested in serious studies of birds, regardless of age or profession, and the society is open to anyone who wishes to join. "Canadian ornithologist" encompasses Canadian citizens who study or are interested in birds as well as citizens of other countries with an interest in Canadian birds and in the state of bird study in Canada. The society works to administer awards, produce two publications, a tri-annual newsletter, Picoides, and a professional journal, Avian Conservation and Ecology, and provide interconnection with other professional ornithological societies.

Website: http://www.sco-soc.ca

Conference Organizers

Conference Organizers

Susan K. Skagen, U.S. Geological Survey, Fort Collins Science Center

Sara Oyler-McCance, U.S. Geological Survey, Fort Collins Science Center

Financial Management Committee

Kim Sullivan, Utah State University Melinda Pruett-Jones, American Ornithologists' Union Scott Gillihan, American Ornithologists' Union

Scientific Program Committee

Diana F. Tomback (Co-Chair), University of Colorado, Denver Michael B. Wunder (Co-Chair), University of Colorado, Denver Lauryn Benedict, University of Northern Colorado Matthew D. Carling, University of Wyoming Paul Doherty Jr., Colorado State University

T. Luke George, Colorado State University Rebecca J. Safran, University of Colorado-Boulder Brett Walker, Colorado Parks and Wildlife

Field Trip Committee

Tammy VerCauteren (Chair), Rocky Mountain Bird Observatory
Natasha Carr, U.S. Geological Survey, Fort Collins Science Center
Jason Beason, Rocky Mountain Bird Observatory
Jeff Connor, National Park Service
Nick Komar, Quetzal Tours
Ronald Harden, National Park Service
Joe Roller, Colorado Field Ornithologists, Rocky Mountain
Bird Observatory
Kathy Brazelton, National Park Service
Jim Thompson, National Park Service
Richard Hahn, National Park Service, Volunteer

Social Events Committee

Anne Bartuzsevige (Co-Chair), Playa Lakes Joint Venture Kate Huyvaert (Co-Chair), Colorado State University Lauryn Benedict, University of Northern Colorado Erin Youngberg, Rocky Mountain Bird Observatory Arvind Panjabi, Rocky Mountain Bird Observatory David Klute. Colorado Parks and Wildlife

Fund-Raising Committee

Cameron Aldridge, Colorado State University and U.S. Geological Survey Helen Sofaer, Colorado State University Vivianna Ruiz, Colorado State University

Publicity Committee

Janet Ruth, U.S. Geological Survey, Fort Collins Science Center (logo design) Andree Brisson, Hayes State University Melinda Pruett-Jones, American Ornithologists' Union

Joint Student Presentation Awards Committee

Matt Carling, University of Wyoming Anna Chalfoun, University of Wyoming

Joint Student Travel Awards Committee

Matt Carling, University of Wyoming (AOU Chair) Rolf Koford, Iowa State University (COS) Ryan Germain, University of British Columbia (SCO)

Joint Student Activities & Affairs Committee

Nicholas Mason, Cornell University (AOU Chair) Valerie Steen, Colorado State University and U.S. Geological Survey (COS Chair)

Ryan Germain, University of British Colombia (SCO Chair) Phred Benham, University of Illinois, Urbana-Champaign Shawn Billerman, University of Wyoming Sara Bombaci, Colorado State University Tara Conkling, Mississippi State University Kristen Covino, University of Southern Mississippi Kristin Davis, Texas A&M University Kristen Dillon, University of Arizona Brian Gerber, Colorado State University Rebecca Harris, Washington University Ashley Long, Texas A&M University Carl Lundblad, University of Arizona Mike McCloy, University of Tennessee Stacia Novia, U.S. Air Force and Peregrine Fund Nicholas Sly, University of Illinois, Urbana-Champaign Kathryn Smith, Texas A&M University Jason Tack, Colorado State University and U.S. Geological Survey Jennifer Timmer, Colorado State University Pascal Title, University of Michigan Krysten Zummo, New Mexico State University

Young Professional Award Committee (COS)

Victoria Dreitz, University of Montana (Chair) Matt Carling, University of Wyoming Henry Streby, University of California Berkeley Walter Wehtje, The Crane Trust

All-Out Ostrich Uproar

Kate Huyvaert, Colorado State University

Conference and Website Management

The Schneider Group, Waco, Texas

The Meeting Site

All conference activities, including symposia, workshops, contributed and poster sessions, council and business meetings, student events, social events, the opening reception and closing banquet, will take place at the YMCA of the Rockies. The campus covers 860 acres and is bordered on three sides by Rocky Mountain National Park. We hope you will agree that this is the ideal meeting location, offering wildlife, nature, and iconic mountain vistas. Don't be surprised if you see many of the deer and local elk strolling through the campus as you walk to the meeting each day!

If you are interested in finding out what there is to see and to do at the Y, on-site information and sign-up for activities are available in the Sweet Memorial Building. Brief details are available at the information desk located in the Administration Building, just inside the front door.

You also may go to http://ymcarockies.org/activities/. Once you are on this page, click the box entitled "View This Week's Programs" or the one under it entitled "View Next Week's Programs." Sign up is available via the blue box, just to the left of these selections.

Meeting Sponsors

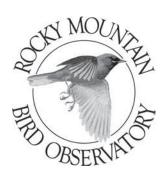
We are deeply grateful to the following sponsors whose generosity enhanced the meeting in ways that we could not have attained otherwise.

Brown-Capped Rosy-Finch Level



Black Swift Level





Pygmy Nuthatch Level







University of Colorado Denver Graduate School

Other In-kind Sponsors

Colorado Cider Company · Estes Park Brewery · Black Bottle Brewery

Meeting Information

Updated meeting information will be posted daily at http://www.birdmeetings.org/aoucossco2014/

Registration/Information Desk

Housing and meeting registration will take place in the lobby of the Administration Building near the entrance to the YMCA of the Rockies (look for a flagpole). A parking lot near the Administration Building is available during check-in. The meeting registration desk will be open during the following times as listed. (Hours are subject to change.)

Tuesday, 23 September	13:00 to 20:00
Wednesday, 24 September	7:00 to 17:30
Thursday, 25 September	7:30 to 17:30
Friday, 26 September	7:30 to 17:30
Saturday, 27 September	7:30 to 17:30

Message/Job Board

A board for job postings and messages will be available in the Assembly Hall foyer throughout the meeting.

Parking

Parking is complimentary with parking spaces adjacent to the lodge buildings.

Meals

Breakfast, lunch, and dinner are included with your housing fee. Meals are served every day in an all-you-can-eat buffet-style dining hall, the Aspen Dining Room. All meals will be provided on-site and are included as a package with lodging costs. Please contact the YMCA of the Rockies directly for special dietary concerns or contact Lynda West at lyndaw@sgmeet.com. If you are not staying at the YMCA there will be a daily fee required of \$15, and if you will be attending any of the functions with meals, you will need to purchase a meal ticket. Both may be paid at the YMCA check-in desk in the Administration Building.

Aspen Dining Room Hours

6:30 to 9:00	Breakfast
11:30 to 13:30	Lunch
17:00 to 19:30	Dinner

Internet Access and Cell Phone Coverage

The YMCA of the Rockies Estes Park Center has free wireless internet access throughout the property. The signal is strongest in the Administration Building and lodges.

Cell phone reception is dependent on the type of phone and service provider (Verizon and ATT have the strongest reception here), but signals tend to be weak overall. There are public phones available for guest use.

Climate, Dress, and Staying Healthy

Temperatures in late September in nearby Estes Park, Colorado, average in the mid-60s °F (18-21°C) for highs and the high 30s °F (3-4°C) for lows. Most days are crisp and clear with bright sunshine and gorgeous blue skies. In typical years, average monthly precipitation totals for the region are low, about 1.5" (3.8cm), but rain showers and snow are possible, even likely, at this time of year.

The meeting venues, socials, and meal locations are all heated, if needed. Attendees may wish to bring a sweater or light jacket for cooler meeting locations and a heavier coat or parka for colder evenings and early mornings. A hat and gloves are recommended for early morning walks or evening moments in the mountains. (Layers, layers, layers!) AOU/COS/SCO meetings do not have a dress code; we suggest slacks or pants and comfortable shoes for walking among the meeting venues. For the Banquet, casual business dress is often the norm.

The sun is intense for much of the day, particularly given our elevation at 8,010ft (2,440m). Above 8,000 feet, oxygen is approximately 45% less dense and there is 50% to 80% less humidity than sea level. We recommend using sunscreen, a hat, and long pants and long-sleeved shirts to avoid sunburn.

We also strongly recommend attendees bring a water bottle (there will be bulk water available throughout the premises) and drink plenty of water (64 ounces daily) as people tend to lose more water in the dry conditions. High altitude-related health problems can also occur, and symptoms of altitude sickness include headaches, nausea, swelling of the face, hands, or feet, trouble breathing, and trouble sleeping. To alleviate these symptoms, we recommend drinking plenty of water, get lots of rest, eat lightly, and avoid caffeine and alcohol. Ibuprofen and altitude sickness medication is available for purchase at the General Store in the Administration Building. More information on avoiding dehydration and altitude sickness can be found on the Web (www.altitudemedicine.org) or by consulting your physician.

Getting Around

Meeting rooms and lodges are located throughout the campus. There is no designated shuttle or transportation service but if you have limited mobility, please check at the registration desk. Limited rides will be available via golf cart.

Automated Teller Machines

An automated teller machine (ATM) is located in the Administration Building.

Coffee Breaks

Coffee breaks for conference attendees will be held Wednesday, Thursday, and Saturday at 9:30 to 10:00 and 15:30 to 16:00. Friday morning's break is from 10:00 to 10:30. All breaks will be held in the Assembly Hall.

Childcare

This year, the Societies are arranging for professional event child care service to be available on-site, in close proximity to the meeting, dining, and lodging rooms. The company, Tots on the Spot, comes very highly recommended by the YMCA of the Rockies. Interested parents will make arrangements directly with the provider and can find out more information about schedules and costs from their website (www.totsonthespot.com).

ADA Statement/Special Needs

If you have a disability or limitation that may require special consideration in order to fully participate in the meeting, please contact the YMCA or the conference management office to see how your needs can be accommodated. Call 254-776-3550 or contact Lynda West via e-mail at lyndaw@sgmeet.com.

Nearby Medical Services and Facilities

Hospital and Emergency Room

Estes Park Medical Center, 555 Prospect Avenue, Estes Park (970) 586-2317

Pharmacies

Estes Park Pharmacy, 600 S. Saint Vrain Avenue, Estes Park (970) 586 - 3366

Rocky Mountain Pharmacy, 453 E. Wonder View Avenue, Estes Park (970) 586 – 5577

Society Meetings

Following is a schedule of society meetings that will take place throughout the week.

Monday, 22 September 2014

15:00-21:00	COS Board Meeting	Pine Dining Room
15:00-21:00	1st AOU Council Meeting	Walnut Dining Room

Tuesday, 23 September 2014

	•	
8:00-12:00	COS/AOU Joint Meeting	Longs Peak –
		Diamond West
8:00-15:30	2nd AOU Council Meeting	Walnut Dining Room
8:00-15:30	COS Board Meeting	Pine Dining Room
9:00-16:00	SCO Executive Meeting	Hobbs
16:00-17:30	AOU Fellows Meeting	Ruesch Auditorium

Wednesday, 24 September 2014

12:30-13:30 OSNA Meeting Hobbs

Thursday, 25 September 2014

No society meetings scheduled.

Friday, 24 September 2014

12:00-13:00 SCO AGM Meeting

Longs Peak –
Diamond East

12:00-13:30 AOU Editors Meeting

Walnut Dining Room

12:00-13:30 COS Editors Meeting

Pine Dining Room

Travel Awardees

Student Travel Awardees

The joint student awards committee comprised of members from all three societies reviewed 106 applications for student travel awards and 15 applications for postdoctoral travel awards. Congratulations to the following award recipients:

Stepfanie Aguillon, University of Arizona
Alexandra Anderson, Boise State University
Priya Balasubramaniam, University of California, Riverside

Hope Batcheller, Cornell University

Christopher Battey, University of Washington

Elizabeth Beckman, University of New Mexico

Lisha Berzins, University of Northern BC

Alyssa Borowsek, University of Connecticut

Andy Boyce, University of Montana

Kathryn Brautigam, University of Arkansas at Monticello

Laure Cauchard, Université de Montréal

Antonio Celis-Murillo, University of Illinois at Urbana-Champaign

Kristen Covino, University of Southern Mississippi

Merle Crombie, University of British Columbia

Claire Curry, University of Manitoba

Catherine Dale, Queen's University

Petra Deane-Coe, Cornell University

Alana Demko, University of Windsor

Rachael Derbyshire, University of Guelph

Bryant Dossman, The Ohio State University

Shawn DuBay, University of Chicago

Rachael Eaton, Michigan State University

Elisa Elizondo, Oklahoma State University

Lisa Elliot, University of Minnesota

Katie Faust Stryjewski, Boston University

Molly Folkerts, Louisiana State University in Shreveport

Erick Gonzalez-Medina, UNAM

Brendan Graham, University of Windsor

David Grunzel, University of Maine

Sarah Gutowsky, Dalhousie University

Tyler Hallman, Oregon State University

Michael Hallworth, Smithsonian Conservation Biology Institute

Rebecca Harris, University of Washington

Michael Harvey, Louisiana State University

Kristina Hick, University of Windsor

Amanda Holland, University of Georgia/SREL Kate Johnson, University of British Columbia Kristin Jones, Oregon State University Luke Klicka, San Diego State University Eunbi Kwon, Kansas State University Diane Landoll, University of Oklahoma Anna Lehmicke, University of Georgia Carl Lunblad, University of Idaho Sarah MacLean, UC Berkeley Jennifer Malpass, The Ohio State University Nicholas Mason, Cornell University Jennifer McCabe, University of Maine Molly McDermott, The Ohio State University Ashley Ozelski, City University of New York Kathryn Peiman, UCLA Jennifer N. Phillips, Tulane University Jennifer L. Phillips, UC Davis Jeannine Randall, University of Northern BC Angela Ricono, Florida Institute of Technology Karla Rivera-Caceres, University of Miami Angelina Ruiz-Sanchez, UNAM Katharine Ruskin, University of Maine Luis Sandoval, Universidad de Costa Rica Jason Sardell, University of Miami Sarah Saunders, University of Minnesota Taza Schaming, Cornell University Alma Schrage, UC Berkeley Heather Skeen, Loyola University Chicago David Slager, University of Washington Robert Spaul, Boise State University Maria Stager, University of Illinois at Urbana-Champaign Rebecca Stanton, University of Sashatchewan Andrew Sweet, University of Illinois at Urbana-Champaign Anna Tigano, Queen's University Pascal Title, University of Michigan Jorge Tomasevic, University of Washington Brian Trevelline, Duquesne University Anna Tucker, Virginia Commonwealth University Jason Unruh, University of Regina Bram Verheijen, Kansas State University Lauren Walker, University of Washington Jennifer Walsh, University of New Hampshire Shannon Walsh, San Diego State University Alex Wang, University of Hawaii, Hilo Ryan Weaver, Auburn University Emily Weiser, University of Otago Alana Westwood, Dalhousie University

Ben Winger, University of Chicago

Post-doctoral Travel Award Recipients

Andrea Bonisoli-Alquati, University of South Carolina Gustavo Bravo, University of Sao Paulo Graham Fairhurst, University of Saskatchewan Andrea Grunst, Indiana State University Melissa Grunst, Indiana State University Sara Kaiser, Cornell University Jay McEntee, University of Arizona Jeremy Ross, University of Oklahoma Scott Taylor, Cornell University

Early Professional Activities

Early Professionals Mini-Talk Symposium

Wednesday, 24 September 2014 Walnut Dining Room, 16:00 to 17:30

The Early Professionals Committee is hosting a special symposium designed to highlight the exciting research performed by professionals in the beginning stages of their careers (i.e., post-doctoral researchers, pre-tenure faculty members, and scientists outside of academia who have received academic degrees within the past five years). During this lively and fast-paced event, early professionals will present 5-minute talks using automatically advancing slides to showcase their recent research advances, the techniques they employ, or the future directions their research will take.

Participants in the Early Professionals Mini-Talk Symposium should load their talks between 13:30 and 15:30 in the Walnut Dining Room on Wednesday, 24 September. Please note that this is a different protocol from other oral presentations. It is mandatory that all presentations must be in a Power-Point format and use automatically advancing slides, and the entire length of the presentation must be 4 minutes and 40 seconds, total.

Presentation Schedule

1 1 CSCIItati	on beneaute
16:00-16:05	Michael Butler (butlermw@lafayette.edu), Providing Resources to Early-Professional Ornithologists
16:05-16:10	Brian Olsen (brian.olsen@maine.edu), <i>Evolutionary succession</i>
16:10-16:15	Jeremy Ross (rossjd@ou.edu), Avifaunal impacts of severe storms
16:15-16:20	Luis Sandoval (biosandoval@hotmail.com), Avian acoustic communication ecology in tropical urban habitats
16:20-16:25	Clark Jones (bacs@uga.edu), Landscape-level influence on the distribution and movement of southeastern pine forest specialists in urban and agricultural settings

Continued on page 10...

Monday 22 September 2014 1200-1330 Linch 200-1330 Linch 200-1330 Linch 200-1318 Miner Drining Room 1200-1330 From Thesis Chapter to Published Minut Drining Room 1200-1300 Prom Thesis Chapter to Published Minut Drining Room Article Workshop Assembly Hall 1200-1600 Early Drining Hall 1200-1600 Early Driessions Minut Drining Room 1300-1500 Early Professional Mini-Talk Minut Drining Room 1300-1500 Early Driessions Minut Drining Room 1500-1200 Early Driessions Mini-Talk Minit Drining Room 1500-1200 Early Driessions Minit Drining Room 1500-1200 Early Driessions Minit Drining Room 1500-1200 Early Driessions Minit Drining Room 1500-1200 Ea	Gene	ral Schedule		10:00-12:00	Concurrent Sessions	Various Locations/ Rooms
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		· ·	-	12:00-13:30	-	Walnut Dining Room
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SCC Executive Meeting Hobbs Aspen Dining Hall 17:30-19:30 Cincurs Aspen Dining Hall 17:30-19:00 Silent Auction Set Up Admin Building Lobby 17:30-19:00 Early Professionals Social Walnut Dining Room 13:00-20:00 Presentation/Speaker Preview Room Open Admin Building Lobby 17:30-19:00 Early Professionals Social Walnut Dining Room 13:00-20:00 Presentation/Speaker Preview Room Open Admin Building Lobby 17:30-19:00 Early Professionals Social Walnut Dining Room 13:00-20:00 Presentation/Speaker Preview Room Open Assembly Hall 19:00-21:00 Small Owl Banding Field Trip Parking Lot Across from Aspen Dining Hall 19:00-21:00 Posters and Exhibits Open Assembly Hall 19:00-21:00 Posters and Exhibits Open Assembly Hall 19:00-21:00 Posters and Exhibits Open Assembly Hall 19:00-21:00 Posters Session and Social Assembly Hall 19:00-21:00 Poster Session and Social Assembly Hall Poster Social Mixer Poster Session	08:00-12:00		0	16:00–17:30	Concurrent Sessions	Various Locations/
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	09:30–10:00	Coffee Break			Ornithologists in the Military:	

13:30–15:30	Concurrent Sessions	Various Locations/ Rooms	13:30–15:30	Concurrent Sessions	Various Locations/ Rooms
15:30–16:00	Coffee Break	Assembly Hall Foyer and Patio	15:30-16:00	Coffee Break	Assembly Hall Foyer and Patio
16:00–17:30	Concurrent Sessions	Various Locations/ Rooms	16:00–17:30	Concurrent Sessions	Various Locations/ Rooms
17:30-19:30	Dinner	Aspen Dining Hall	17:00-18:30	Young Professional Award Reception	Pine Dining Room
17:30-19:00	Women in Ornithology	Walnut Dining Room	.=	(Invitation Only)	
10.00 01.00	Negotiation Session	A 1-1- 1 I I - 11	17:30-19:30	Dinner Civil Tria	Aspen Dining Hall
19:00-21:00 21:00-24:00	Poster Session and Social Bird Jam and Poetry Slam	Assembly Hall Longhouse	17:30-19:30	Elk Echoes Field Trip	Parking Lot Across from Aspen Dining Hall
21.00-24.00	bird Jain and Foetry Stain	Longnouse	18:00-20:00	Student-Professional Social	Assembly Hall
Friday 2	26 September 2014		20:00-22:00	Quiz Bowl	Assembly Hall
06:00-09:00	Upper Beaver Meadows Field Trip	Parking Lot Across			
00.00-09.00	Opper beaver meadows rield Trip	from Aspen Dining Hall	Saturda	y, 27 September 2014	
06:15-09:00	Lumpy Ridge Field Trip	Parking Lot Across	06:30-09:00	Breakfast	Aspen Dining Hall
		from Aspen Dining Hall	07:00-17:00	Child Care TBD	Location TBD
06:45-09:00	Lake Estes Trail Field Trip	Parking Lot Across from Aspen Dining Hall	07:00–17:00	Presentation/Speaker Preview Room Open	Bilheimer/Dodge
07:00-08:30	YMCA Walk	Meet at mini-golf	07:30-17:30	Registration Open	Admin Building Lobby
		course, west side of Stutts Field	08:00-09:30	Announcements, Plenary Address, Society Business	Ruesch Auditorium
06:30-09:00	Breakfast	Aspen Dining Hall		Speaker: Susan M. Haig, Ph.D.	
	Presentation/Speaker Preview Room Open	Bilheimer/Dodge	09:30–10:00	Coffee Break	Assembly Hall Foyer and Patio
07:00–17:00	Child Care TBD	Location TBD	10:00-12:00	Concurrent Sessions	Various Locations/
07:30–17:30	Registration Open	Admin Building Lobby			Rooms
08:30–10:00	Concurrent Sessions	Various Locations/ Rooms	12:00-13:30	Lunch	Aspen Dining Hall
09:00-12:00	Silent Auction Pick Up	Assembly Hall	12:15-13:15	Documentary-"From Billions to None"	Ruesch Auditorium
09:00-12:00	Poster/Exhibitor Teardown	Assembly Hall	13:30–15:30	Concurrent Sessions	Various Locations/
10:00-10:30	Coffee Break	Assembly Hall Foyer	14:30-17:00	Student Judging Room	Rooms Pine Dining Room
		and Patio	15:30-16:00	Coffee Break	Assembly Hall Foyer
10:30–12:00	Announcements, Plenary Address, Society Business	Ruesch Auditorium	10.00 10.00	Conce Break	and Patio
	Cooper Ornithological Society		16:00–17:30	Concurrent Sessions	Various Locations/ Rooms
	Young Professional Award Plenary Speakers: Conor C. J. Taff, Ph.D. & Mary Caswell Stoddard, Ph.D.		18:00-19:00	Reception	Assembly Hall Foyer and Patio
10:30-11:30	•	Longs Peak –	19:00-22:00	Closing Banquet	Assembly Hall
10.00 11.00	A Tribute	Boulder Field			
12:00-13:30	Lunch	Aspen Dining Hall	Sunday,	28 September 2014	
12:00-17:00	Pay for Silent Auction Items	Administration Lobby	06:30-09:00	Breakfast	Aspen Dining Hall
12:00–13:00	SCO AGM Meeting	(Near Registration) Longs Peak –	06:30-12:30	Barr Lake State Park Field Trip	Parking Lot Across from Aspen Dining Hall
40.00 :==:	ACTION AND A	Diamond East	07:00-12:00	Ouzel Falls Field Trip	Parking Lot Across
12:00-13:30	AOU Editors Meeting	Walnut Dining Room	07.00 10.00	Alaina Tundua Half Dan Elald E.	from Aspen Dining Hall
12:00–13:30	COS Editors Meeting	Pine Dining Room	07:00-12:00	Alpine Tundra Half-Day Field Trip	Parking Lot Across from Aspen Dining Hall
12:15-13:15	Documentary-"From Billions to None" Ornithologists in the Military:	Ruesch Auditorium	07:00-16:00	Alpine Tundra Full-Day Field Trip	Parking Lot Across
13:30–14:30	Ornithologists in the Military: A Tribute	Longs Peak – Boulder Field		,	from Aspen Dining Hall

Continued from Page 7...

16:25-16:30	John Withey (jwithey@fiu.edu), Are migratory
	birds in North America mistiming their arrival
	due to climate change, and do they suffer fitness
	consequences as a result? Testing the phenological
	mismatch hypothesis at an unprecedented scale

- 16:30-16:35 Elizabeth Gow (eliz.gow@usask.ca), Tracking
 Northern Flickers throughout the annual cycle: linking parental effort to migration
- 16:35-16:40 Scott Taylor (sat235@cornell.edu), *Avian hybrid* zones as windows on evolution and ecology
- 16:40-16:45 Emma Greig (eig9@cornell.edu), The transition from behavioral ecologist to citizen science project manager
- 16:45-16:50 Eugenia Zarza (zarzafranco@oxy.edu), Towards a comparative phylogeography of the Mexican Highlands: insights from genomic ultraconserved elements in a bird species complex
- 16:50-16:55 Iris Levin (Iris.Levin@Colorado.edu), Measuring social interactions in barn swallows (Hirundo rustica) using Encounternet proximity tags
- 16:55-17:00 Helen Sofaer (helen@rams.colostate.edu), Resource acquisition and allocation in avian life history theory
- 17:00-17:05 Raymond Danner (danner.ray@gmail.com),

 The evolutionary ecology of changing thermal and auditory landscapes
- 17:05-17:10 James Maley (jmaley@oxy.edu), Clapper and King Rail hybrid zone genomics
- 17:10-17:15 Clark Rushing (rushingc@si.edu) Combining highresolution remote sensing data with information about migratory connectivity to quantify full annual-cycle drivers of population trends within demographicallydefined populations of a migratory bird
- 17:15-17:20 Richard Feldman (richardf@eco.umass.edu), Habitat selection at the scale of species ranges
- 17:20-17:25 Monica Iglecia (miglecia@manomet.org), Supporting shorebirds on farms and wetlands from coast to coast
- 17:25-17:30 Graham Fairhurst (graham.fairhurst@usask.ca), Advances in ecophysiology using feather corticosterone

Early Professionals Social

Wednesday, 24 September 2014 Walnut Dining Room, 17:30-19:00

Immediately following the Early Professionals Mini-talk Symposium, the Early Professionals Committee will host a social event for all individuals in the beginning stages of their careers (including those who did not present during the symposium). At this event, early professionals will mingle with each other and with senior scientists from academia, government co-ops,

and the public sector. This informal event will allow those in the beginning stages of their careers to receive advice and guidance from senior scientists who have served on search committees and tenure review committees as well as to network with their fellow early-stage colleagues. No need to RSVP – just show up. Light snacks and beer will be available.

Student Activities

The combined student affairs committees of the three societies have planned several events to promote students getting to know each other and to provide opportunities for students and professionals to interact in relaxed settings. In addition, they have organized events to raise funds supporting student travel and activities at future meetings.

Silent Auction

Items in the Silent Auction will be on display throughout the conference in the Assembly Hall.

Attendees may bid on items between 9:00 and 21:00 Wednesday and 9:00 and 21:00 Thursday.

Potential buyers should record their bids on sheets accompanying each item; we ask participants to consider meaningful increments in bidding. Bidding will close at 21:00 Thursday following the conclusion of the poster presentations. Winners should check to see if their bids won and must pay for and pick up purchased items between noon and 17:00 Friday. Proceeds from the auction will be used to fund student travel and participation at future meetings. This is organized by the joint Student Affairs Committee.

Student-Professional Social

Friday, 26 September 2014 Assembly Hall, 18:00 to 20:00

This informal social event will provide an opportunity for students to meet and discuss common research interests with professionals in their field. Academic and non-academic professionals from a diversity of research backgrounds will be in attendance. Students are invited to casually move between tables throughout the event as they wish. Dinner and drinks will be served. This social will immediately be followed by the Quiz Bowl. Registration is free and open to students on a first-come, first-served basis. Space is limited. For additional information and to RSVP, please email SPDinner.SAC@gmail.com.

Ouiz Bowl

Friday, 26 September 2014 Assembly Hall, 20:00 to 22:00

This event is organized by the joint Student Affairs Committee. In this exciting Jeopardy-style quiz bowl--always one of the most popular events at the meeting--self-assembled teams of three

will first compete in a "pub-trivia" style round of ornithology and bird-influenced pop-culture trivia, ranging from categories like Taxonomy to Avian Anagrams. The winning teams from the open, pub-style round will then play in the head-to-head championship round for great prizes. Faculty and other professionals are encouraged to participate as well! Drinks and light snacks.

Field Trips

A range of popular half-day to full-day field trips both before and after the meeting are available to help conference attendees sample the avifauna of this beautiful region. Pre-registration is required and many are already sold out. For more complete information on the field trips and participant instructions, please go to: http://www.birdmeetings.org/aoucossco2014/trips.asp

Except for the morning bird walks on the YMCA grounds, the field trips will depart from the parking lot across from the Aspen Dining Hall.

Upper Beaver Meadows Field Trip

Offered at two different times:

Tuesday, 23 September, 14:00 to 18:00 (No meal provided.) Friday, 26 September, 06:00 to 09:00 (Box breakfast provided.)

Trip Description: Round trip is an easy two mile hike. Along a stream, the Ponderosa pines, aspens and Lodgepole pines mix with open meadow in the glacial valley to provide a very attractive habitat for a wide variety of birds. Area great for viewing elk, coyotes, badgers, long-tailed weasels, and marmots. Bird species we expect to see include: Mountain and Western Bluebirds, Ruby-crowned Kinglets, American Three-toed woodpeckers, Hairy and Downy woodpeckers, Pygmy, Whitebreasted and Red-breasted nuthatches; Townsend's Solitaires, Mountain Chickadees, Dark-eyed Juncos, Brown Creepers.

Fern Lake Trail Field Trip

Tuesday, 23 September, 14:00 to 18:00 (No meal provided.)

Trip Description: Round trip three miles. A wide, relatively flat trail passes partially through a wild fire that burned in the fall of 2012. Besides bird watching, there will be an opportunity to discuss succession, fire ecology and climate change that relates to birds. The trail will pass through Rocky Mountain maples, aspen, and conifers and parallels the Big Thompson River. A diversity of species are expected including Three-toed Woodpecker, Dusky Grouse, American Dipper, Mountain Chickadee, Clark's Nutcracker, Stellar's Jay, Red Crossbill, and Pine siskin.

YMCA Walks

Offered at two different times. (No meal provided.) Wednesday, 24 September, 07:00 to 08:30 Friday, 26 September, 07:00 to 08:30

Wednesday Trip Description: Meet in front of the livery. Easy

to moderate walk in montane forest. Species we could see include Pygmy Nuthatch, Mountain Chickadee, Yellow-rumped Warbler, Violet-green Swallow, Pine Siskin, Townsend's Solitaire, Cooper's and Sharp-shinned hawk, Northern Goshawk.

Friday Trip Description: Meet at the mini-golf course on the west side of Stutts Field just north of the Administration Building. Easy to moderate hiking in montane and riparian forest. Species we may see include Pygmy Nuthatch, Mountain Chickadee, Yellow-rumped Warbler, other warbler migrants, Violet-green Swallow, Pine Siskin, Townsend's Solitaire, American Dipper, Cooper's Hawk, Sharp-shinned Hawk, Northern Goshawk.

Elk Echoes Field Trip

Offered at two different times. (Box dinner provided.)
Wednesday 24, September, 17:30 to 19:30
Friday, 26 September, 17:30 to 19:30

Trip Description: Bull elk bugle to gather harems of cows, their haunting cries ringing through the evening twilight. Join a Park Ranger to learn about elk adaptations, migration, and mating behavior. A 30- minute talk starts at 18:00. This trip requires minimal hiking. Be prepared for cooler temperatures in the evening.

Small Owl Banding Field Trip with Scott Rashid

Wednesday, 24 September, 17:30 to 22:00 (Box dinner provided.)

Trip Description: Field trip participants will observe/assist Scott Rashid (naturalist, artist, bander) in setting up and opening mist nets, measuring and banding and releasing any Boreal owls captured, and closing the nets.

Lumpy Ridge Field Trip

Friday, 26 September, 06:15 to 09:00 (Box breakfast provided.)

Trip Description: This is a round trip 2-mile moderate hike. Lumpy Ridge has the highest density of nesting raptors in the park and is also the most popular world class rock climbing area in the park. Hike will focus on raptor management. Expected species include Peregrine Falcon, Prairie Falcon, Golden Eagle, Cooper's Hawk, Northern Goshawk, and Red-Tailed Hawk that nest in the area. Migrating raptors include Osprey, Bald Eagle, Turkey Vulture, Sharp-Shinned Hawk, Ferruginous Hawk, Swainson's Hawk, and American Kestrel.

Lake Estes Trail and Mathews-Reeser Bird Refuge Field Trip

Friday, 26 September, 06:45 to 09:00 (Box breakfast provided.)

Trip description: The trail is paved, mostly flat and easy walking along 2-mile stretch between Estes Park Visitor Center and Lake Estes Dam. The trail travels through the Mathews—Reeser Bird Sanctuary, a riparian area the Big Thompson River and the north side of Lake Estes. Late migrants may

include western warblers, Swainson's and Hermit Thrush, Mountain Bluebird, American and Lesser Goldfinch, Osprey, Broad-tailed Hummingbird. Resident species include Northern Shrike, Steller's Jay, Belted Kingfisher, Bald Eagle, Pygmy Nuthatch, Clark's Nutcracker.

Barr Lake State Park Field Trip with Trip to Denver International Airport

Sunday, 28 September, 06:30 to 12:30 (Box breakfast and lunch provided.)

Trip description: We will arrive at Barr Lake State Park at 8:00 AM, visit the Nature Center (bathrooms), then stroll to the banding station with easy hiking. There are big cottonwoods along the shore of this large reservoir and mist nets set among thick willows. In late September, peak migration will likely have passed, but Rocky Mountain Bird Observatory will still be catching and banding a variety of passerines such as Orange-Crowned, Yellow-rumped and Wilson's warblers, a variety of sparrows, Green-tailed and Spotted towhees, Hermit Thrushes, Ruby-crowned Kinglets, and subspecies of Dark-eyed Junco. Extensive mud-flats in the reservoir may yield gulls, terns, shorebirds, Western Grebes, a large gulp of Double-crested Cormorants, American White Pelican.

Ouzel Falls Trail Field Trip

Sunday, 28 September, 07:00 to 12:00 (Box breakfast and lunch provided.)

Trip Description: Three to five mile moderate hike. This area supports one of the most diverse bird breeding habitats in Colorado. Black bear and moose are occasional, and elk and mule deer are common. The trail passes through Lodgepole Pine, Englemann and Blue Spruce and three waterfalls. Species we expect to see include: MacGillivray's, Virginia's, Wilson's, Townsend's and Yellow warblers; Mountain and Western bluebirds, Broad-tailed Hummingbird. Resident species include Townsend's Solitaire, Cassin's and House finch, American Dipper (Ouzel), Mountain and Black-capped chickadee, Brown Creeper, Pygmy, White-breasted and Red-breasted nuthatch, Gray Jay, Clark's Nutcracker, Steller's Jay, Pine Siskin, Black-billed Magpie; and Hairy, Downy and Three-toed woodpecker.

Alpine Tundra - Half-day Field Trip

Sunday, 28 September, 07:00 to 12:00 (Box breakfast provided.)

Trip Description: Trail Ridge Road is the highest contiguous highway in the United States with its highest point slightly over 12,000 ft. The ½ day trip will include about 1 mile of moderate to hard hiking; the elevation will affect you, so drink a lot of water, take frequent breaks, and pace yourself. Species we expect to see include: White-Tailed Ptarmigan, Brown-Capped Rosy Finches, possibly the more irregular Gray-Crowned Rosy-Finch, White-Crowned Sparrow, Dark-Eyed Junco. At the Alpine Visitor Center, you may see Swainson's Hawks migrating through, or the Ferruginous Hawk or Golden Eagle hunting yellow-bellied marmots in the basin below. While driving along Trail Ridge Road, other raptors of the tundra are

prairie falcons and Northern harriers. Other wildlife includes elk and possibly bighorn sheep.

Alpine Tundra - Full-day Field Trip

Sunday, 28 September, 07:00 to 16:00 (Box breakfast and lunch provided.)

Trip Description: See description for ½-day Alpine Tundra trip. Other wildlife includes elk in rut, so expect to hear bugling bulls at Milner Pass, possibly bighorn sheep, and in Kawuneeche Valley possibly moose and elk as well as bluebirds, Clark's Nutcracker, Red Crossbills and more.

Organized/Off-site Trips

Arrangements for any of the following trips originating outside of the YMCA of the Rockies must be made directly with the trip organizers who are listed with each of the write-ups. Attendees of these field trips will also be responsible for your own transportation to and from the locations listed for the field trips. For additional information please contact the organizer shown. Complete information on these trips also is located at http://www.birdmeetings.org/aoucossco2014/offsite-trips.asp

Pre- and Post-Meeting Birding Opportunities at Sylvan Dale Guest Ranch

Trip #1 – Pre-Meeting Field Trip

Tuesday, 23 September 2014

8:00: Meet at Sylvan Dale Guest Ranch. Welcome and introduction by David Armstrong, Resident Naturalist: "The Foothills of the Southern Rockies, Hinge-point of North America"

9:00 to 11:00: Natural History of the Foothills: interpretive hike focused on birds and general ecology of the "hinge-point of North America." Led by Dr. Ron Harden (renowned local birder) and Dr. David Armstrong (retired CU-Boulder ecology/evolution professor, co-author of Mammals of Colorado).

Trip #2 – Post-Meeting Field Trip

Sunday, 28 September 2014

7:00: Meet at Sylvan Dale Guest Ranch. Welcome and introduction by David Armstrong, Resident Naturalist

8:00 to 11:00: Natural History of the Foothills of the Front Range: interpretive hike focused on birds and general ecology of the "hinge-point of North America." Led by Dr. Ron Harden (renowned local birder) and Dr. David Armstrong (Sylvan Dale's resident naturalist, retired CU-Boulder ecology/evolution professor, co-author of Mammals of Colorado).

Lodging and meals may be available at Sylvan Dale. Please contact the ranch for pricing and availability. Accommodations are also available in Loveland, just 6 miles east of the ranch; Estes Park is about 30 minutes west of the ranch. A \$10 fee will be charged per person for folks interested in the talks and hikes on the 23rd or 28th.

Contact: Laura Armstrong, Heart J Center for Experiential Learning at Sylvan Dale Ranch, laura@heartjcenter.org, www.heartjcenter.org

Chico Basin Ranch

Monday, 29 September 2014, 7:30 to 15:00

Round trip of 70 miles from Colorado Springs or 200 miles from Denver. Provide your own transport (high clearance vehicle recommended).

The ranch lies in a major flyway for migrant birds and Rocky Mountain Bird Observatory runs a banding station here in spring and fall. Expect to see many empids, sparrows, warblers, thrushes in the hand and there will be a good chance for a rarity.

Contact: Joe Roller, Board member, Rocky Mountain Bird Observatory and Colorado Field Ornithologists, jroller9@gmail.com

Northeast Colorado Reservoirs

Tuesday, 23 September 2014, 7:30 to 15:30

Cost: \$10 Habitat Stamp (free for seniors)

Birders on this trip will provide their own vehicles and plan to arrive in Colorado on Monday, 22 September 2014. They arrange for lodging in the town of Sterling, CO, which is about a 2.5 hour drive from Denver International Airport.

Bill Kaempfer of the Colorado Field Ornithologists will meet the group Tuesday morning at 7:30 AM at the Sterling Visitor's Center. Participants will carpool to hotspots along the South Platte River corridor from just west of Sterling (Prewitt Reservoir) to far northeast Colorado (Tamarack Ranch, Red Lion State Wildlife area, and Jumbo Reservoir).

Food provided: You're on your own. Bring a bag lunch, snacks, and beverages from stores in Sterling.

Contact: Joe Roller, Board member, Rocky Mountain Bird Observatory and Colorado Field Ornithologists, jroller9@gmail.com

Quetzal Meeting Tours From Estes Park

Trip #1 - Pre-meeting All-Day Colorado Mountain Tour from Estes Park

Tuesday, 23 September 2014, 6:00 am to 17:00

Depart YMCA of the Rockies in Estes Park, and visit a variety of trails and public access picnic areas at elevations between 7000 and 11000 feet in the southern part of Rocky Mountain National Park in Boulder County and in the Indian Peaks Wilderness.

Tour #2 - Post-meeting All-Day Colorado Mountain Tour from Estes Park

Sunday, 28 September 2014, 6:00 to 18:00. Return time on Sunday tour may be later (18:00 or 19:00).

Depart YMCA of the Rockies in Estes Park, and visit a variety of trails and public access picnic areas at elevations between 7000

and 11000 feet in the southern part of Rocky Mountain National Park in Boulder County and in the Indian Peaks Wilderness.

Contact: Quetzal Tours at info@quetzal-tours.com.

Tour #3 - Post-meeting All-Day Colorado Prairie Tour from Estes Park

Sunday, 28 September 2014, 6:00 to 17:00. Return time on Sunday tour may be later (18:00 or 19:00).

Drop-off Option: Either Denver Airport hotel district or Estes Park.

Tour will visit a variety of prairie habitats including grasslands, Great Plains reservoirs, and riparian woodlands that serve as major migration stopover sites for both land birds and shorebirds.

Contact: Quetzal Tours at info@quetzal-tours.com.

Quetzal Pre-Meeting Tours from Denver

Tour #1 – Pre–Meeting – 3 Day/2 Night Colorado Birding Tour from Denver

Sunday, September 21, 2014, 7:00 Sunday - 17:00 Tuesday

Tours starts with pickup at Denver International Airport hotel district. Lodging both nights at Horseshoe Lodge, Pueblo Mountain Park in south-central Colorado. Day 1, visits Eastern plains migrant traps and prairie grasslands; John Martin Reservoir for migrant shorebirds (20 species). Overnight at Pueblo Mountain Park Horseshoe Lodge. Day 2, mountain birding around Rye; Pueblo Reservoir State Park; owling in Wet Mountains. Day 3, morning birding at migrant traps at Chico Basin Ranch; visit to Rocky Mountain Bird Observatory banding station. Drop-off at Estes Park lodging in time to attend conference opening reception.

Meals provided: Breakfasts and dinners at Horseshoe Lodge.

Tour #2 – Pre-meeting All-Day Tour from Denver - Colorado Prairie Tour

Tuesday, September 23, 2014, 6:00 - 17:00 (pickup Denver International Airport hotel district, drop-off Estes Park lodging)

Tour will visit a variety of prairie habitats including grasslands, Great Plains reservoirs, and riparian woodlands that serve as major migration stopover sites for both land birds and shorebirds.

Meals provided: Bag lunch.

Contact: Quetzal Tours at info@quetzal-tours.com.

Quetzal Post-Meeting 3 Day/2 Night Colorado Birding Tour from Denver

Sunday, September 28, 2014, 6:30 Sunday - 17:00 Tuesday. 6:30 departure from DIA Hotel district, return 17:00 Tuesday.

Tour starts with pickup at Denver International Airport hotel district. Lodging both nights at Horseshoe Lodge, Pueblo Mountain Park in south-central Colorado. Day 1, visits Eastern plains migrant traps and prairie grasslands; John Martin Reservoir for migrant shorebirds (20 species). Overnight at Pueblo Mountain

Park Horseshoe Lodge. Day 2, mountain birding around Rye; Pueblo Reservoir State Park. owling in Wet Mountains. Day 3, morning birding at migrant traps at Chico Basin Ranch; visit to Rocky Mountain Bird Observatory banding station

Contact: Quetzal Tours at info@quetzal-tours.com.

Self-guided Trips

Following are some birding options near Estes Park to explore on your own before, during or after the AOU meeting. Locations near Estes Park outside of Rocky Mountain National Park offer excellent birding opportunities during fall migration. In late-September, many of the species that breed in the area have already migrated south. However, this is a very exciting time to go birding in the area with migrants from just about anywhere in the country coming through the region. Recommended locations and distances from Estes Park:

- Pawnee National Grassland (including Crow Valley) 83.6 miles (1 hr 49 min) to Briggdale, CO which is adjacent to Crow Valley (USFS campground).
 - The campground at Crow Valley is an excellent location to search for migrating landbirds and one of the best migrant "traps" in Colorado. The grasslands around Crow Valley are excellent examples of shortgrass prairie.
- 2. Jackson Lake State Park driving distance: 92 miles (2 hr 3 min).
 - Located in the central flyway, this reservoir is outstanding for migrating shorebirds and waterbirds and the trees around the reservoir are good for migrating landbirds.
- North Park 116 miles (to Walden is 2 hr 43 min).
 Greater Sage-Grouse and other sage species can be found here and reservoirs are great for breeding and migrating waterbirds
- 4. Barr Lake State Park 70 miles (1 hr 43 min).
 - This reservoir is great for breeding and migrating shorebirds and waterbirds and the trees surrounding the reservoir are great for migrating landbirds (RMBO banding station will be operating mornings).
- Cherry Creek State Park 79 miles (1 hr 47 min).
 Another reservoir surrounded by forests that is great for migrating waterbirds and landbirds.
- Hereford Ranch (Wyoming) 88 miles (to Cheyenne, Wyoming is 1 hr 40 min).
 - This private ranch welcomes birders and is one of the best places in the region for migrating landbirds.
- 7. Matthews-Reeser Bird Sanctuary and Lake Estes In Estes Park

The area where the Big Thompson River flows into Lake Estes has attracted many rare landbirds the past few years. In the event of foul weather mountain birds can be present also. Look for waterbirds on Lake Estes.

- 8. Watson Lake State Wildlife Area 43.6 miles (to Bellvue, CO is 1 hr 12 min)
 - The short trail along the Poudre River is great for migrating landbirds and the cliffy areas along the river are great for raptors and aerial insectivores. The lake could have a good diversity of waterbirds in the fall.
- 9. Cameron Pass 90 miles (2 hrs 7 min) on the way to Walden, CO.
 - This is one of the best places in Colorado for Boreal Owl. All of the expected mountain species can be found here.
- 10. Poudre River Trail 42 miles (1 hr 10 min) to convenient parking lot at Lee Martinez Park.
 - A great place to take a walk and bird as you go, lookingfor migrating landbirds.

To explore other options, please visit Colorado Field Ornithologists county-birding website: http://coloradocountybirding.com/

Workshops

A number of workshops will be featured throughout the week. For more information about the content of the various workshops, please go to: http://www.birdmeetings.org/aoucoss-co2014/workshops.asp or contact one of the instructors listed below. In some cases, preregistration is required and some may be already full.

Introduction to R

Tuesday, 23 September 2014 Longs Peak – Chasm Lake, 08:00 to 12:00

Workshop Instructors: Nicholas Mason (nicholas.albert.mason@gmail.com); Shawn Billerman (s.m.billerman@gmail.com); Tara Conkling (tconkling@cfr.msstate.edu); Kristen Corvino (covinok@gmail.com); Brian Gerber (bgerber@colostate.edu); Brett Sandercock (bsanderc@ksu.edu); Jason Tack (jasontack@gmail.com); and Jennifer Timmer (timmerj3@gmail.com).

Description: This half-day workshop will introduce attendees to R, a free, open-source statistical software program. The workshop is aimed at students, post-doctoral researchers, and early-career professionals who have little or no experience with R. The main objective will be to confer a basic familiarity and understanding of what R is, what it is capable of, and learning how to perform some basic tasks and functions using rudimentary data structures. Attendees will be asked to bring their own laptops and have R installed prior to attending the workshop. Participants will generate their own code and also follow scripts that have been provided by the instructors.

Bird Demography in Program R (Two Workshops)

Tuesday, 23 September 2014 Longs Peak – Diamond East, 08:00 to 12:00

Tuesday, 23 September 2014 Longs Peak – Diamond East, 13:30 to 17:30

Workshop Instructors: Brett K. Sandercock, bsanderc@ksu. edu; Viviana Ruiz-Gutierrez, vruizg@colostate.edu; and Conor P. McGowan, cgowan@usgs.gov

Quantitative tools for analyses of demographic data are an important area of active development. Many of the new statistical tools have been adapted as packages for Program R, an opensource software that is freely available to the scientific community. Learning new demographic analyses can be challenging if the concepts are technically difficult or if the software tools are not well-documented. The purpose of this workshop is to introduce some of the new packages in Program R that can be used for estimation of demographic parameters and population models. A series of instructors will present short lectures on background concepts, and lead participants through example analyses in Program R. Our workshop on Bird Demography in Program R will complement a planned symposium on Quantitative Advances and Applications in Avian Ecology. Attendees will be asked to bring their own laptops and have R installed (also MARK executable if using RMark) prior to attending the workshop.

From Thesis Chapter to Published Article: Navigating the Publication Process for New Authors

Wednesday, 24 September 2014 Walnut Dining Room, 12:00 to 13:30

Workshop Instructors: Mark Hauber, Editor-in-Chief of *The Auk: Ornithological Advances*, mark.hauber@hunter.cuny.edu and Phil Stouffer, Editor-in-Chief of *Condor: Ornithological Applications*, pstouffer@lsu.edu

Description: As the editors in chief of the newly renamed society journals, Mark Hauber (Editor-in-chief of *The Auk: Ornithological Advances*) and Phil Stouffer (Editor-in-chief of *Condor: Ornithological Applications*) are excited to lead this workshop/discussion forum and share their experiences and recommendations about the publication process. This drop-in workshop is aimed at young investigators (graduate students and postdocs) at AOU/COS, focusing on a successful strategy to prepare manuscripts for submission and working through the review/revision process. You need bring only your curiosity and questions. A buffet line will be set up for lunch at this workshop.

Negotiation Strategies for Women in Ornithology

Thursday, 25 September 2014 Walnut Dining Room, 17:30 – 19:00

Workshop Instructor: Kimberly Sullivan, kim.sullivan@usu.edu

Description: A dinner-hour symposium that will feature a multi-media presentation and opportunities for women scientists to practice negotiation skills. A reception and dinner buffet will be available.

Special Events

Documentary-From Billions to None: The Passenger Pigeon's Flight to Extinction

Three separate showings in Ruesch Auditorium:

Wednesday, 24 September 2014	.21:00	to	22:30
Friday, 26 September 2014	.12:15	to	13:15
Saturday, 27 September 2014	.12:15	to	13:15

A showing of this one-hour documentary is planned as part of the symposium "A Century Later: Lessons from the Extinction of the Passenger Pigeon." Three separate showings are planned so that as many attendees as are interested can attend.

On September 1, 1914, the last known passenger pigeon in existence died in the Cincinnati Zoo. Martha, named after Martha Washington, was the last of her kind, an amazingly abundant species that went from billions that darkened the entire sky - to none - in a matter of decades. What happened to the passenger pigeon? You could say we happened. From Billions to None: The Passenger Pigeon's Flight to Extinction follows naturalist and author Joel Greenberg on a quest to reveal the incredible story of how the most abundant bird species in North America became extinct by human hands in a geologic heartbeat.

Planned for a fall 2014 broadcast on public television, this one-hour documentary retells the remarkable tale of the passenger pigeon and explores its striking relevance to conservation challenges today. Interweaving rare archival material, computer animation that brings the flocks of billions to life, stunning nature footage and aerial cinematography, the film recreates the awe-inspiring reality of these birds, and presents passionate scientists, artists, teachers and young people who reveal why, 100 years later, it's important to remember the event - and act. You can watch the latest video trailer at https://vimeo.com/91863820 and check out the website at: e-int.com/billionstonone

Short-Film Presentations

Wednesday, 24 September 2014 Ruesch Auditorium, 12:15 to 13:15

Ornithological Adventures: A short film from Equatorial Guinea

This past November, three young ornithologists set out on a 10-day expedition to Equatorial Guinea, a little-known but ornithologically-rich country in West Central Africa. Equatorial Guinea is a unique case: it is tiny, Spanish-speaking and brings in enormous revenues generated from offshore oil reserves, making it the richest country per capita in Africa. The country is developing at a furious pace, with new four-lane highways suddenly crisscrossing formerly inaccessible areas. In this fast-paced documentary, director Mo Twine captures the adventures of these three ornithologists as they attempt to establish a precedent for ornithology

in a remote corner of Africa. For questions about the film, please contact Dr. Luke Powell at luke.l.powell@gmail.com.

Bay2Bay: A short film about the work of VCU's Biology and Life Sciences programs with Prothonotary Warblers

Preservation of habitats critical to migratory birds is important to environmental, economic, and cultural well-being of nearby communities and requires cross-cultural cooperation. Bay2Bay documents Virginia Commonwealth University biologists studying Prothonotary Warblers, Neotropical songbirds, from breeding grounds in the U.S. along the Chesapeake Bay to wintering grounds in Panama mangroves along Panama Bay. For questions about the film, please contact Laura Chessin, lchessin@vcu.edu.

Ornithologists in the Military: A Tribute

Thursday, 25 September 2014 Walnut Dining Room, 12:00 to 13:30

Do you realize how many professional ornithologists have served in the military through the eras of World War I, World War II, Korea, Vietnam, and Iraq/Afghanistan? Come see a special tribute that has been masterfully produced by Dr. David Manuwal.

This 40-minute presentation will also be shown in Longs Peak in the Boulder Field Room on Friday, 26 September 2014, at 10:30 and 13:30.

All-Out Ostrich Uproar 5K Race

Thursday, 25 September 2014 YMCA Grounds, 7:00 to 8:30

The 28th running of AOU's traditional 5K (3.1 miles) fun race will take place early morning, Thursday, September 25, before morning talks and with time for participants to snag breakfast afterwards. The course will wind in and around the YMCA grounds (located at ~8,010 ft/2,440 m of elevation) on paved and unpaved roads with some short stretches on trails to keep you hopping. The course winds through the forest in places and soaring views of the Rockies promise to make this an Uproar participants will not soon forget. Water will be available on the course. The \$20 race participation fee benefits student scholarships and includes eligibility for ostrich-egg prizes. Those who sign up on site will not receive a t-shirt. For additional details, please contact Kate Huyvaert (kate.huyvaert@colostate.edu). The breakfast buffet in Aspen Dining Hall will be available for runners that morning until 9:30.

Social Events

Several events will have beer and wine served for your enjoyment. Alcohol is not available for purchase on the YMCA campus. Please keep in mind that the inventory is limited and more importantly, you are at high altitude and low humidity. Please drink responsibly.

AOU Fellows Reception and Dinner

Tuesday, 23 September 2014, Invitation Only Rams Horn Lodge, 17:30 to 19:00

Cost: \$30.00, Registration: Pre-Registration Required

Opening Reception and Welcome Social Mixer

Tuesday, 23 September 2014 Assembly Hall, 19:00 to 21:00

This is a welcome to incoming participants and guests and a chance to visit with your friends and colleagues. Light snacks and drinks will be available.

Retired Ornithologists' Lunch

Wednesday, 24 September 2014 Pine Dining Room, 12:00 to 13:30

Emeritus ornithologists' are invited to dine together to reconnect with each other over lunch. Pre-registration is recommended.

Poster Session Receptions

Wednesday and Thursday evenings, 24 and 25 September 2014 Assembly Hall, 19:00 to 21:00

Drinks, lights snacks, and hundreds of posters about birds to view and discuss with authors.

Bird Band Jam and Poetry Slam

Thursday, 25 September 2014 Longhouse, 21:00 to Midnight

Join us at the Bird Band Jam on Thursday evening after the poster session. We'll have great live music plus original poetry. Bring your guitar or your fiddle! Write a winning Haiku about your research! Or just come and dance to the sounds of Finnders & Youngberg plus other local bands.. Fifteen dollars covers admission plus snacks and two drinks. Local beer and live music played by your colleagues – what could be better? Estes Park seems like the perfect place to continue the Bird Jam that happened in Vancouver, B.C. The Rocky Mountains, big porches with fireplaces, and cool autumn air – perfect for music anytime during the meeting! Cost: \$15.00 Registration is required no later than noon on Wednesday.

Young Professional Award Reception

Friday, 26 September 2014, Invitation Only Pine Dining Room, 17:00 to 18:30

Closing Banquet and Awards Ceremony

Saturday, 27 September 2014 Assembly Hall, 19:00 to 22:00

At this closing banquet, awards will be presented for student presentations, the Ned Johnson Young Investigator Award, and prestigious lifetime achievement awards of the societies.

Photo Contest

The meeting location this year is truly stunning. We'd like to see what you see. Take a picture - with your phone or big fancy camera – and send it to the photo committee. Pictures taken prior to and/or outside of the meeting are welcomed, too. Send a copy of your photo along with your ballot number (which shows you paid the entry fee) to birdmeetingphotos@ gmail.com and tell us into which category you would like to enter. After making sure the photo is not career-limiting in any way, a member of the photo committee will post it to the meeting Facebook page where meeting attendees will vote by "liking". We will also have locations for physical ballots in the Assembly Hall. The pictures with the greatest number of "likes" in each category on each day will be entered to win the overall category prize which will be determined via "liking" on Saturday. The picture with the most votes in each category will win a fabulous prize – or, you know, a prize. The top votegetter in each category throughout the week will be eligible for Best in Show. Categories include: Best Bird, Best Nest, Best Representation of a Bird (cloud/rock/stick that looks like a bird, sculpture or drawing of a bird), Best Selfie (extra credit if there's a bird involved), Best Photobomb, Best Landscape/ Nature, Best Candid, Best Fieldwork, and Best Photo from Phone. The committee will also decide on a committee favorite. A slideshow will run at the banquet of all the submitted pictures. There will be a \$2 entry fee for each photo submitted. Proceeds will go to the Student Activities Committee.

Vendor & Sponsor Exhibitors

Exhibits will be located in the Assembly Hall where the socials, coffee breaks and poster sessions will be held and will be open Wednesday at 18:00 through Friday at noon.

Society Exhibits

American Ornithologists' Union

Website: http://www.aou.org/

Central Ornithology Publication Office

Website: http://aoucospubs.org/

Cooper Ornithological Society

Website: http://www.cooper.org/

Society of Canadian Ornithologists

Website: www.sco-soc.ca/

Sponsor Exhibits

Colorado State University

Warner College of Natural Resources

Natural Resources 101 Fort Collins, CO 80523 Contact: Julie Orwick

Phone: (970) 491-0979

Email Address: Julie.Orwick@colostate.edu

USGS Fort Collins Science Center

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Special Guest of the Cooper Ornithological Society



The Cooper Ornithological Society, whose name commemorates an early Western naturalist, James Graham Cooper, has grown from a small band of naturalists in 1893 to the internationally recognized scientific society it is today. The success of the COS depends essentially on those who, first and foremost, are passionate about birds. Today we are re-

minded of our heritage and that passion for birds: Joining us

at this year's meeting is a young bird enthusiast, David Martin Cuntz, Jr., who is the great-great-great nephew of James Graham Cooper. James Graham Cooper's father – Martin's great, great, great grandfather – is William Cooper, namesake of the Cooper's Hawk, and founder of the New York Natural History Lyceum. Martin is an avid birder whose natural history project "Saving the California Condor" was selected by his school this year to present at the Fort Lewis College - Colorado Southwest Regional History Day. This summer, Martin got caught up in banding birds at a MAPS station near his home in Durango, CO. Besides a passion for birds, Martin loves playing the banjo. Find a minute to talk birds and banjo with Martin; he, his Dad and his sister will be playing at the Bird Band Jam.

Plenary Sessions

There will be a plenary address, followed by society business, the mornings of 24, 25 and 27 September in the Ruesch Auditorium, adjacent to the dining hall. On Friday morning, the plenary time slot will be devoted to presentations of the 2014 winners of the Cooper Ornithological Society's Young Professional Award. The three invited plenary speakers this year are as follows:

Wednesday, 24 September 2014, Ruesch Auditorium, 08:00 to 09:30



H. Grant Gilchrist, Ph.D. Research Scientist, National Wildlife Research Centre, Environment Canada, Ottawa, Ontario, Ad-

ment Canada, Ottawa, Ontario, Adjunct Professor, Carleton University, Ottawa, Ontario, Acadia University, Wolfville, Nova Scotia, Canada

Dr. Gilchrist leads multi-disciplinary research programs which investigate

the behavior, demographics, migration, and distribution of Arctic seabirds, particularly in relation to perturbations such as disease and climate change. Several of his projects focus on seabird harvest by Aboriginal Peoples and include collaboration with First Nation organizations in order to devise conservation and management strategies that incorporate both sustainable harvest levels and Aboriginal traditions. Grant Gilchrist received a B.S. (honors) in Biology from Trent University and his Ph.D. in Zoology from the University of British Columbia. After completing his doctorate, he was hired by Environment Canada. In addition to his adjunct appointments, Dr. Gilchrist is an Honorary Research Associate at the University of New Brunswick. He is the current Chair of the Circumpolar Seabird Expert Group under the Arctic Council's umbrella biodiversity organization, Conservation of Arctic Flora and Fauna (CAFF); a member of the Sea Duck Joint Venture Scientific Technical Committee: and, chair of the Northern Studies Trust Committee. In addition, he is co-chair of the 2014 Sea Duck Conference, which will be held in Iceland.

Presentation: Research in a Changing Arctic: Conservation Biology of the Northern Common Eider Duck

Abstract: We often view the Arctic as a pristine wilderness largely free of environmental threats. Times are changing. I will review the effects of three factors currently affecting eider duck (Somateria mollissima) populations in Arctic Canada: harvest, emerging diseases, and changing predatory regimes. Infectious disease is a potentially important driver of wildlife population dynamics; however the demographic effects of disease in free-ranging hosts have proven difficult to quantify. Avian cholera is a highly virulent disease of birds that has circulated among common eider populations in Europe and North America for several decades. The disease has recently appeared in the Canadian Arctic where high annual mortality, coupled with near total reproductive failure on affected colonies, has raised fears over local extirpation and severe population decline. In this study our group used data from a marked population of northern common eiders (S. m. borealis) to estimate vital rates before and during a multi-year cholera outbreak. Nesting success remains below replacement level and there has been no evidence for population recovery. Climate change can also influence species directly by modifying their physical environment or indirectly by altering interactions among organisms. Changes affecting the ecology of top predators are expected to be a particular concern because variation in predator behaviour has the potential to restructure food webs and lead to cascading ecological impacts on prey populations. Polar bears (Ursus maritimus) are a top predator in the circumpolar Arctic and are adapted to use sea ice as a platform to hunt seals. Advancement in the timing of spring sea ice break-up has recently reduced the access of seals to bears, and has been associated with increased bear predation of eider eggs on islands in summer. The proportion of days on which bears are present on eider duck colonies before their median annual laying date has more than doubled during the past two decades. Nest success has also declined raising concern about the long-term viability of ground-nesting bird populations such as eiders that are unaccustomed to such intensive depredation by bears.

Thursday, 25 September 2014, Ruesch Auditorium, 08:00 to 09:30



Alexander V. Badyaev, Ph.D. Professor, Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, Arizona USA

Dr. Badyaev's innovative research examines mechanisms of inheritance and developmental biology to understand response to selection, with specific focus on the origin of

adaptations. His work has explored adaptation and evolution in birds with respect to plumage colors, the interaction between epigenetic and genetic inheritance, the role of stress

in evolution, behavioral and life history strategies, and sexual dimorphism. Alexander Badyaev received his B.S. and M.S. degrees in Mathematical Biology and Comparative Anatomy and Population Ecology, respectively, from Moscow State University; M.S. in Biological Sciences from the University of Arkansas; and, Ph.D. in Organismal Biology and Ecology from the University of Montana. In 2002, he joined the Department of Ecology and Evolutionary Biology at the University of Arizona as an Assistant Professor. Dr. Badyaev has been widely recognized for his research contributions; among his achievements, he was elected as a Fellow of the AOU in 2009, a Packard Fellow in Science and Engineering in 2005, a Fellow of the American Association for the Advancement of Science in 2012, and as a Kavli Foundation Fellow of the National Academy of Sciences in 2013.

Presentation: Colors of the Past: Can ancient metabolic pathways direct contemporary avian color evolution?

Abstract: Essentially all known genomic and metabolic elements that make birds birds, have originated outside the context of avian evolution such that the tremendous phenotypic diversity in avian form and function is produced by rearrangement and differential expression of these elements. We routinely use the well-known discrepancy between genomic and phenotypic evolution to uncover correct historical relationships between phenotypically convergent species. A less common approach is to see how the legacy of such ancient "non-avian" acquisitions has biased evolution of birds. For example, is avian carotenoid-color diversification directed by the structure of a carotenoid genomic network that evolved in the context of bacterial diversification, has remained virtually unchanged since, and was fully in place a billion years prior to the origin of birds? What fraction of this network has already been explored in avian evolution? Are birds less diverse in color now than in the past? What fraction of this color space or combination of its elements are inaccessible to birds? And what would the avian world look like if such constraints did not exist?

Saturday, 27 September 2014, Ruesch Auditorium, 08:00 to 09:30



Susan M. Haig, Ph.D.

Supervisory Research Wildlife Biologist, USGS Forest and Rangeland Ecosystem Science Center, Professor of Wildlife Ecology, Oregon State University, Corvallis, Oregon USA

Dr. Haig's research interests are broadly within the fields of conservation genetics and the ecology,

behavioral ecology, and population biology of species at risk, especially shorebirds. Her specific interests include the population genetics and demographics of small populations, impacts of environmental stressors such as climate change on population persistence, and the conservation implications of

avian population movements and dynamics. Susan Haig received her B.S. degree in Biology from Northland College and her Ph.D. in Biology from the University of North Dakota. She spent the next two years as a postdoctoral fellow at the Smithsonian Institution, and continues her affiliation as a Research Associate. In 1989, she became Assistant Professor/Assistant Wildlife Unit Leader at Clemson University; and, in 1994, she moved to her current position at Oregon State University. In 2011, she received the Loye and Alden Miller Research Award from the Cooper Ornithological Society, which recognizes lifetime achievement in ornithology, and has served as president of the American Ornithologists' Union since 2012.

Presentation: Avian Conservation Geneticists: A Jack of All Trades, A Master of ...Pretty Many!

Abstract: This century's explosion of molecular technology has thrown down the gauntlet to avian behavioral ecologists, landscape ecologists, toxicologists, policy-makers, and other scientists not traditionally aligned with molecular biology in a challenge to use these new tools to answer questions previously unattainable in their field. As conservation geneticists, we tap into many of these fields to address the ever-changing and always critical questions related to conservation of endangered birds. Therefore, at the beginning of a study, and often to assist U.S. Fish and Wildlife Service in their evaluation of how to list a taxon under the ESA, we assess taxonomic units. Most recently, we examined whether Micronesian Kingfishers (Todiramphus cinnamomina) from Guam, Pohnpei, and Palau were a species or subspecies before translocations plans are implemented. We also need to know a species history. Thus DNA from museums skins have shown us that there was more genetic diversity in Least Terns (Sternula antillarum) 60 years ago than in the 21st century. We found significant recent population bottlenecks in Northern Spotted Owls (Strix occidentalis caurina) and the decline in California Condors (Gymnogyps californianus) was so fast that they did not suffer from population genetic differentiation. Understanding a species relationship to the landscape helps prioritize management actions. For example, using circuit theory to examine dry tropical forest fragmentation in Brazil's Cerrado region and genetic structure in Pfrimer's Parakeet (Pyrrhura pfrimeri) lead us to warn managers of the speed of the species decline. In our Great Basin work, we are using molecular markers to predict changes in waterbird food distribution across the region as a result of changing climate. Our work is not complete unless we take the broadest view possible and understand the migratory connectivity of a species (www.migratoryconnectivityproject.org). A good example is our Dunlin (Calidris alpina) study where we have developed genetic markers so we can now tell people in California when birds carrying a disease from Asia are on their way. Hopefully, it is clear that conservation geneticists need many skills in addition to molecular expertise. A well-rounded education in ornithology can provide these tools.

Cooper Ornithological Society

Young Professional Award Plenary Speakers

Friday, 26 September 2014, Ruesch Auditorium, 10:30 to 12:00



Conor C. J. Taff, Ph.D. USDA NIFA Postdoctoral Fellow, Department of Wildlife, Fisheries, and Conservation Biology, University of California-Davis

Dr. Taff studies the expression and evolution of sexually selected signals from an integrative perspective. His dissertation research focused on

multi-modal signaling in a population of individually marked Common Yellowthroat warblers (Geothlypis trichas). Dr. Taff investigates both the proximate and ultimate factors that control the physiology of signal production and influence selection on signaling traits. His analyses of signal production and survival—coupled with oxidative stress and telomere dynamics—link signaling directly with life history evolution and senescence. Conor Taff received his B.A. in Environmental Sciences from Skidmore College in 2005 and his Ph.D. in Animal Behavior from the Department of Evolution & Ecology at the University of California—Davis in 2013. For his postdoctoral research, he is currently studying social behavior and disease transmission in wild American Crows (Corvus brachyrhynchos).

Presentation: Sex, Signals, and Senescence: Telomere Dynamics and Oxidative Stress Link Ornament Expression to Survival and Lifetime Reproductive Success in the Common Yellow-throat (Geothlypis Trichas)

Abstract: In order for receivers to continue responding to sexual signals, signals must be honest on average, suggesting that some mechanism prevents signalers from cheating. For species that breed over multiple years, physiological aging processes—such as accumulated oxidative damage and telomere erosion—may ensure signal honesty by enforcing a trade-off between investment in sexual displays and investment in longevity. Much recent attention has focused on the way that signal investment alters oxidative metabolism by increasing the production of reactive oxygen species or by decreasing oxidative defenses. Similarly, telomere erosion has been a recent focus of evolutionary ecologists studying life history tradeoffs, but no study to date has demonstrated a link between signal production and telomere dynamics. My collaborators and I have previously shown that, in Common Yellowthroats (Geothlypis trichas), oxidative damage to DNA is related to both plumage coloration and overwinter survival and that these same plumage measures are related to within

and extra-pair reproductive success. Here, we show that plumage coloration also acts as reliable signal of the rate of telomere erosion between years. Males that achieve bright plumage in their first breeding season have longer telomeres and lower rates of telomere erosion than dull males. Although dull males typically achieve brighter plumage in their second breeding season, changes in plumage brightness and relative telomere length are negatively correlated, suggesting that investment in sexual signals is costly for these males. Our findings provide a foundation for understanding the maintenance of sexual signal honesty by considering trade-offs between signal production and cell-level processes that can influence aging and reproductive senescence.



Mary Caswell Stoddard, Ph.D. Junior Fellow, Harvard Society Of Fellows, Department of Organismic and Evolutionary Biology, Harvard University

Dr. Mary Caswell Stoddard uses a multidisciplinary approach to explore key questions in evolution, behavior and sensory systems, emphasiz-

ing avian vision and communication. As an undergraduate at Yale University, she investigated avian color vision, devising a color quantification tool called TETRACOLORSPACE. For her Ph.D. research at the University of Cambridge, Dr. Stoddard combined techniques from sensory ecology, computer science and engineering to study the evolution of avian egg coloration and structure. In particular, Dr. Stoddard investigated the Common Cuckoo (Cuculus canorus), a brood parasite that lays its eggs in the nests of unrelated species. With colleagues, she has developed new methods for quantifying pattern and color mimicry, including a novel pattern recognition tool, NATURE-PATTERNMATCH, to determine how host birds recognize their own distinctive egg patterns. At Harvard University, Dr. Stoddard is currently pursuing interdisciplinary work on the genomic and structural basis of eggshell evolution.

Presentation: Avian Vision and the Coevolution of Bird Eggs: Cuckoo Mimicry and Host Defenses

Abstract: Coevolutionary arms races are a powerful force in evolution, and brood parasite-host dynamics provide a key example. Different host-races of the Common Cuckoo, Cuculus canorus, lay eggs — which are often mimetic — in the nests of other species. Most studies of egg mimicry focus on subjective human assessments, which fail to account for avian vision. Here, my colleagues and I develop new techniques for quantifying egg pattern and color mimicry by Cuckoos, revealing that mimicry is better when hosts show strong rejection. Once Cuckoos evolve mimicry, can their hosts fight back by evolving highly recognizable signatures on their own eggs? We introduce a new computer program, NaturePatternMatch, which approximates visual and cognitive processes involved in recognition tasks. Hosts subjected to the best Cuckoo mimicry

have evolved highly recognizable egg pattern signatures as a defense. Overall, these findings reveal new insights into the complex coevolutionary interactions between Cuckoos and their hosts. Our approach combines behavioral ecology with new tools from sensory biology and computer vision and can be applied to diverse studies of visual signaling and recognition in the animal world.

Meeting Abstracts & Scientific Program Addendum

Abstracts for all scientific sessions can be found at: http://www.birdmeetings.org/aoucossco2014/.

Any changes in the schedule during the meeting will be posted at this site daily and a copy of an addendum sheet will be posted as well.

Instructions for Presenters

Concurrent sessions will be held in breakout rooms in the Long's Peak and Emerald Mountain lodges and the Ruesch Auditorium.

Please note: Internet access may not be available in the meeting rooms.

Preparing For Your Presentation

Advance Submission Via Email

Presenters who wish to submit their presentations in advance can email them to michellesherry@ceavco.com. Please use the subject line 2014 AOU/COS/SCO Presentation with your last name. Online submission of your presentation files via email is not required, but is strongly encouraged as presenters who send in their files via email will have a faster check in at the Presentation Room (Bilheimer/Dodge-located behind the Ruesch Auditorium). Please make sure to email all media files required for your presentation. Deadline for online submission is Friday, 19 September at 17:00.

On-Site Submission and Presentation Review/Editing

Check in at the Presentation Room (Bilheimer/Dodge, located behind the Ruesch Auditorium) to submit your files, if you did not do so in advance, and to preview your presentation. You must come to the Presentation Room by 17:00 the day before your talk. The CEAVCO technicians will assist with the upload of your files and provide the opportunity to preview and/or edit your presentation as necessary.

If you submit your files in advance, you may edit your presentation up to the deadlines above. After you have submitted your files and have finished reviewing and/or making changes to your presentation, you must tell CEAVCO personnel that you have viewed and approved your presentation file before you leave the Presentation Room. CEAVCO will then transfer the updated file to your meeting room.

Presentation Room Hours

The Presentation Room will be open as follows:

Quality Control

Giving your presentation a last "once-over" in the Presentation room is the most important step you will take to ensure your success. When reviewing your presentation, make sure all fonts, images, and animations appear as expected and that all audio or video clips are working properly. The computers in the meeting room are the same as the computers in the Presentation Room therefore:

IF THE PRESENTATION DOES NOT PLAY PROPERLY IN THE PRESENTATION ROOM, IT WILL NOT PLAY PROPERLY IN THE MEETING ROOM.

Security

Presenters are required to provide identification in order to submit their presentation as well as access it in the Presentation Room. Cameras and video equipment are not permitted in the Presentation Room.

All files are deleted at the end of the conference, unless permission has been granted to the conference association to retain the presentation files.

Your Meeting Room Experience

Your session room laptop will have your presentation clearly viewable on the desktop. Simply double-click your presenta-

tion and control it from the podium using the computer mouse or the up/down/right/left keys on a keyboard. Audio Visual technicians will be located in close proximity to all meeting rooms and will be available to provide assistance if required.

Contact Information

For questions regarding email submission or preparing your presentation, please contact: Michelle Sherry, CEAVCO, (michellesherry@ceavco.com); Phone: 1-303-507-2109.

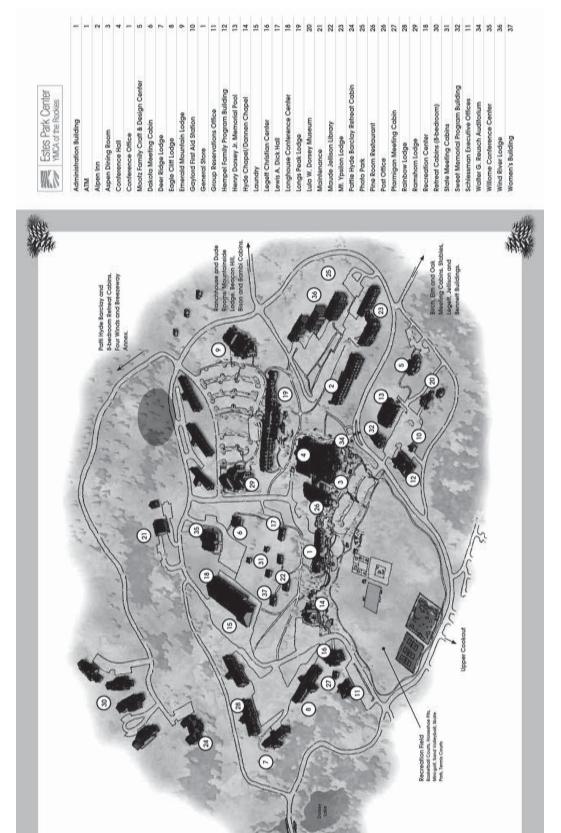
Poster Instructions

Poster sessions are scheduled Wednesday and Thursday evenings from 19:00 to 21:00 in the Assembly Hall. Posters must be set up on Wednesday from 12:00 to 17:00. Posters will remain up Wednesday afternoon through Thursday evening. Odd-numbered posters will be presented on Wednesday, and even-numbered posters will be presented on Thursday. Posters must be removed from the Assembly Hall before noon on Friday.

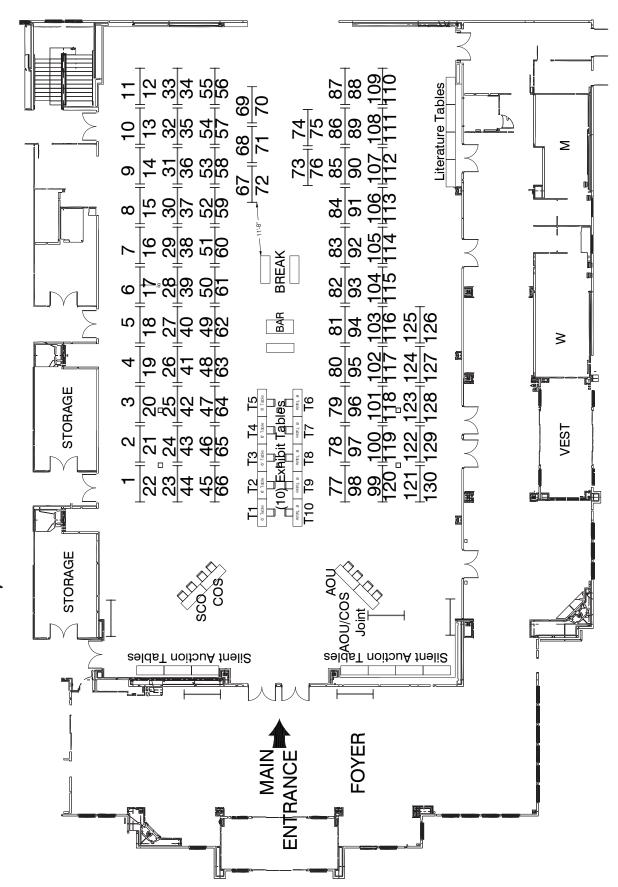
To achieve maximum exposure of posters, the Assembly Hall will also be the location of our daily coffee breaks, vendor exhibits, and silent auction. Limited snacks, beer, wine, and soft drinks will be available during the poster sessions.

Your poster must fit on one side of the board provided. Poster boards are landscape format with dimensions 8 ft. wide x 4 ft. tall (2.4 m wide x 1.2 m tall). To ensure the poster will fit, presenters should design posters to be at least 2 inches (5 cm) smaller on each margin. Posters that are in the 3 to 4 ft. tall x 4 to 5 ft. wide range will allow the presenter room to stand next to the poster without blocking its line of sight. Push pins will be provided for mounting.

YMCA Main Grounds Map

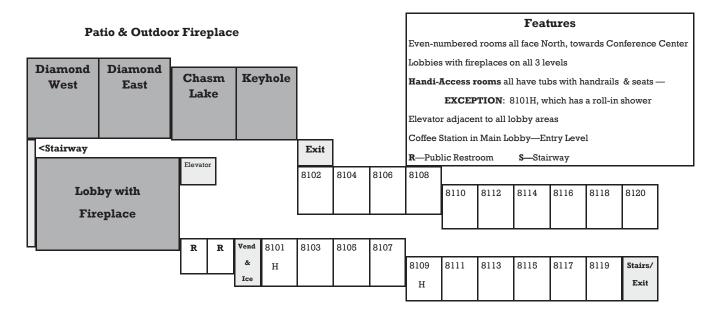


Poster & Exhibit Hall Map

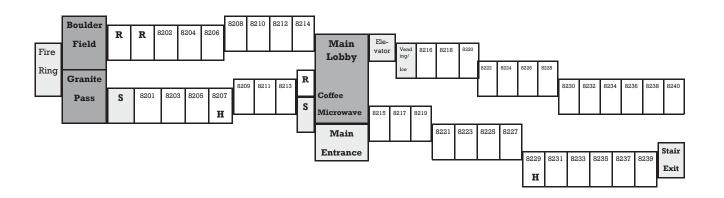


Long's Peak Lodge

Lower Level (8100's)



Entry Level (8200's)



<To Emerald Mountain Lodge

To Ram's Horn Lodge>

Parking

Wednesday Morning Schedule

Room	Ruesch Auditorium	Longs Peak-Diamond East	Emerald Mountain-Bible Point	Longs Peak-Diamond West	Longs Peak-Chasm Lake	Longs Peak–Keyhole	Longs Peak-Granite Pass	Longs Peak – Boulder Field
	S02: Ecological Principles of Emerging Infectious Diseases in Birds	S03: Ecology and Conservation of Aerial Insectivores	C04A: Population Genetics and Genomics	S12: Frontiers in Modeling Bird Populations	S20: Avian Interactions With Energy Infrastructure: Challenges of Being Green	C06A: Seabird Tracking, Shorebird Migration	C15B: Signal Evolution	
Mod	S.Shriner	N. Michel	E. Derryberry	C. McGowan	J. Smith	P. Jodice	G. E. Hill	
10:00	Franklin, A. B.; Huyvaert, K. P.; Root, J. J.; Shriner, S. A.: OPENING REMARKS: ECOLOGICAL PRINCIPLES OF EMERGING INFECTIOUS DISEASES IN BIRDS SYMPOSIUM	Michel, N. L.; Clark, R. G.; Hobson, K. A.; Morrissey, C. A.; POPULATION DYNAMICS OF AERIAL INSECTIVOROUS BIRDS: OVERVIEW AND CLIMATIC DRIVERST	Cheviron, Z. A.; Jones, M. R.; Carling, M. D.: POPULATION GENOMICS OF HIGH ALTITUDE ADAPTATION IN RUFOUS- COLLARED SPARROWS (ZONTRICHIA CAPENSIS).	Arnold, T. W.: ESTIMATING ANNUAL SURVIVAL FROM BAND RECOVERY DAT ^T	Smith, J. P.; Seay, J. L.; Zirpoli, J. A.; Terrill, S. B.; Boroski, B B.: INITIAL RESPONSES OF RAPTORS AND OTHER BIRDS TO DEVELOPMENT OF A UTILITY-SCALE PHOTOVOLTAIC SOLAR FACILITY IN	Gutowsky, S. E.; Leonard, M.; Jonsen, I.; Shaffer, S.: SHIFTING ACTIVITY BUDGETS WITHIN THE OVERWINTER PHASE OF NON-BREEDING IN TWO SISTER ALBATROSS SPECIES	Wilkins, M. R.; Joseph, M. B.; Hubbard, J. K.; Safran, R. J.: MULTIMODAL SIGNALING IN THE NORTH AMERICAN BARN SWALLOW: INFLUENCES OF INTRA- AND INTERSEXUAL SELECTION ON SIGNAL EVOLUTION	
10:15	Hudson, P. J.; Almberg, E. S.; Manlove, K. R.; Aiello, C. M.: PATTERNS AND ECOLOGICAL PRINCIPLES OF DISEASE INVASIONT		Semenov, G.; Drovetski, S. V.; Gay, L.; Derryberry, G.; Khaydarov, D. R.; Malykh, I. M.: WHEN WAGTAILS GET UNMASKED: HYBRIDIZATION, INTROGRESSION AND INCOMPLETE LINEAGE SORTING BETWEEN THE WHITE AND THE MASKED WAGTAILS		GRASSLAND HABITAT IN CALIFORNIA ^T	Jodice, P.; Ronconi, R.; Rupp, E.; Freifeld, H.; Wallace, G.: FIRST SATELLITE TRACKS FOR BLACK-CAPPED PETRELS	Grunst, A. S.; Rotenberry, J. T.; Grunst, M. L.: AGE-DEPENDENT RELATIONSHIPS BETWEEN MULTIPLE SEXUAL PIGMENTS AND CONDITION IN MALES AND FEMALES	
10:30		Silverio, C. A.; Stutchbury, B. J.: FITNESS COSTS OF MALARIA PARASITES IN A DECLINING SWALLOW SPECIES	Billerman, S. M.; Carling, M. D.: GENOMIC ANALYSIS OF A SAPSUCKER HYBRID ZONE	Dinsmore, S. J.: ADVANCES AND TECHNIQUES IN NEST SURVIVAL MODELING ^T	DeVault, T. L.; Belant, J. L.; Blackwell, B. F.; Martin, J. A.: BIRD USE OF SOLAR PHOTOVOLTAIC INSTALLATIONS AT U.S. AIRPORTS: IMPLICATIONS FOR AVIATION SAFETY AND BIRD CONSERVATION ^T	Jodice, P.; Mackin, W.; Satge, Y.; Harrison, A. L.; Phillips, R.: USE OF MID-LATITUDE AND PELAGIC WATERS BY BAHAMIAN SEABIRDS	Bulluck, L. P.; Foster, M. J.; Huber, S.: CAROTENOID CONTENT IN FEATHERS INDICATES REPRODUCTIVE SUCCESS IN EARLY BREEDING FEMALE PROTHONOTARY WARBLERS	
10:45	Parker, P. G.; Levin, I. I.; Hartman, D. A.; Jaramillo, M. C.; Asigau, S. S.: PLASMODIUM IN GALAPAGOS BIRDS: DO WE KNOW ENOUGH ABOUT ITS TRANSMISSION ECOLOGY TO CONSIDER INTERVENTION?	Hund, A. K.; Hubbard, J. K.; Safran, R. J. PARASITE- MEDIATED SEXUAL SIGNALING: WHAT DO FEMALE'S GAIN?	Beckman, E. J.; Witt, C. C.: INTROGRESSION AMONG HIGH ANDEAN SISKINS			Churchwell, R. T.; Powell, A. N.; Kendall, S.; Brown, S.: ASSESSING EASTERN BEAUFORT SEA DELTAS AS FALL STOPOVER SITES FOR SEMIPALMATED SANDPIPERS	Reudink, M. W.; McKellar, A. E.; Marini, K. I.; McArthur, S.; Marra, P. P.; Ratcliffe, L. M.: INTER-ANNIAL VARIATION IL AMERICAN REDSTART (SETOPHAIGA RUTICILLA) PLUMAGE COLOUR IS ASSOCIATED WITH RAINFALL AND TEMPERATURE DURING MOULT	
11:00		Hobson, K. A.: COMBINING GEOLOCATORS AND STABLE ISOTOPES TO INVESTIGATE MIGRATORY CONNECTIVITY IN BARN SWALLOWS	Derryberry, E. P., Lipshutz, S. E.: ASYMMETRIC GENE FLOW AND TERRITORIAL RESPONSE TO SONG ACROSS A SUBSPECIFIC CONTACT ZONE IN THE WHITE- CROWNED SPARROW	Sandercock, B. K.; Winder, V. L.; Hagen, C. A.; Haukos, D. A.; Kesler, D. C.; Patten, M. A.; Powell, L. A.: REGIONAL VARIATION IN THE SEASONAL SURVIVAL OF PRAIRIE CHICKENST	Dietsch, T. V.: AVIAN INTERACTIONS WITH UTILITY- SCALE SOLAR PROJECTS IN SOUTHERN CALIFORNIA ^T	Hope, D. D; Drever, M. C. ; Buchanan, J. B.; Lemon, M. J.: ESTIMATING MIGRATORY PROGRESSION OF SHOREBIRDS THROUGH FIELD COUNTS ALONG THE NORTHERN PACIFIC FLYWAY	Lantz, S. M.; Karubian, J. O.: ADVENTITIOUS MOLT INCREASES REDNESS IN CAROTENOID-BASED PLUMAGE OF A TROPICAL PASSERINE	
11:15	Samuel, M. D.; Atkinson, C. T.; LaPointe, D. A.; Woodworth, B. L.; Liao, W.; Hart, P. J.: DISEASE IN HAWAIIAN FOREST BIRDS: CURRENT PATTERNS AND FUTURE THREATS ⁷	Bradley, D. W.; Clark, R. G.; Dawson, R. D.; Taylor, C. M.; Winkler, D. W.; Norris, D. R.: PRIMARY PRODUCTIVITY AND VARIABLE MOLT STRATEGIES IN AN AERIAL INSECTIVORE (Abstract ID# 16122)	Sardell, J. M.; Uy, J. A.: ASYMMETRIC GENETIC AND PHENOTYPIC INTROGRESSION IN A RECENTLY- ESTABLISHED HYBRID ZONE BETWEEN MYZOMELA HONEYEATERS			Gratto-Trevor, C. L.; Tibbitts, T. L.: POTENTIAL SEX DIFFERENCES IN MIGRATORY CONNECTIVITY OF MARBLED GODWITS BREEDING IN ALBERTA, CANADA	Webster, M. S.; Reeve, H. K.: HONEST SIGNALING OF COMPETITIVE ABILITY WITHOUT DIRECT SIGNAL COSTS: HOW COMMUNICATION CAN LESSEN THE COSTLINESS OF COMPETITION	
11:30		Taylor, C. M.; Laughlin, A. J.; Hall, R. J.: MIGRATORY FLOW NETWORK MODELS: PREDICTING THE MOVEMENTS AND POPULATION DYNAMICS OF AN AERIAL INSECTIVORE.	Walsh, S. E.; Burns, K. J.; Cicero, C.; GENETIC AND PHENOTYPIC DIVERGENCE OF THE SPOTTED TOWHEE (PIPILO MACULATUS) ON THE CALIFORNIA CHANNEL ISLANDS	Broms, K. M.; Johnson, D. S.; Altwegg, R.; Conquest, L. L.: INTRODUCTION TO BAYESIAN METHODS FOR AN OCCUPANCY MODEL ^T	Rogers, A. M.; Gibson, M. R.; Pockette, T.; Alexander, J. L.; Dwyer, J. F.; Dwyer, A. M. : SCAVENGING OF MIGRATORY BIRD CARCASSES IN THE SONORAN DESERT [†]	Gillespie, C. R.; Fontaine, J. J.: STOPOVER HABITAT DECISIONS IN A VANISHING LANDSCAPE	HIII, G. E.: THE DUAL NATURE OF AVIAN ORNAMENTATION	
11:45	Robertson, G. J.; Whitney, H. G.; Lang, A. S.: THE ROLE OF MARINE BIRDS IN THE TRANS- ATLANTIC MOVEMENT OF AVIAN INFLUENZA VIRUSES		Curry, C. M.; Patten, M. A.: EVOLUTION OF REPRODUCTIVE ISOLATION IN A TEMPORALLY COMPLEX HYBRID ZONE BETWEEN TUFTED AND BLACK-CRESTED TITMICE (PARIDAE)			Johnson, A. S.; Perz, J. S.; Senner, N. R.; Nol, E.; Lovette, I. J.; Van Doren, B. M.: CONNECTING HABITATS AND HEMISPHERES: NON-STOP MIGRATORY FLIGHTS IN WHIMBRELS (NUMENIUS PHAEOPUS)	Najar, N. A.; Benedict, L.: SIGNAL EVOLUTION AND SEXUAL SELECTION IN THE ROCK WREN (SALPINCTES OBSOLETUS)	

Wednesday Mid-day Schedule

Longs Peak – Boulder Field										
Longs Peak-Granite Pass Lor	C04B: Phenotype Evolution	D. A. Luther	Hubbard, J. K.; Hund, A. K.; Albrect, T.; Safran, R. J.; GENETIC AND ENVIRONMENTAL CONTRIBUTIONS TO A DUVERGENT PLUMAGE TRAIT IN BARN SWALLOWS	Luther, D. A.: Lipshutz, S.; Derryberry, E.: DIVERGENCE IN BILL MORPHOLOGY BETWEEN URBAN AND RURAL POPULATIONS	McEntee, J. P.; Bowie, R. C.: SONG EVOLUTION IN SUNBIRDS OF AFRICAN SKY ISLANDS	SIN IN. D., Cheviron, Z. A.: GENE EXPRESSION PATTERNS REGULATING MELANIN-BASED FEATHER PIGMENTATION IN THE ZEBRA FINCH	Sausner, J. S.; Hertel, F.: ECOMORPHOLOGY OF STORM- PETRELS ALONG THE PACIFIC COAST OF THE AMERICAS	Bravo, G. A.; Remsen, J. V.; Brumfield, R. T.; ADAPTIVE PROCESSES BINVE ECOMORPHOLOGICAL CONVERGENT EVOLUTION IN ANTWRENS (THAMNOPHILIDAE)		Brown, C. E., Winkler, D. W.; Sheldon, F. H.; COMPARATIVE TRANNCRIPTOMICS OF ANAIN MIGRATION: GENE EXPRESSION IN MITHER BRAINS OF TREE SWALLOWS (TACHYCINETA BICOLOR) STAGING FOR MIGRATION
Longs Peak-Keyhole	C08D Tropical and Seabird Ecology	P. Arcese	VISO, D. M.: PERSISTENCE AND PERLI, IN FRAGMENTED TROPICAL, FOREST: EVIDENCE FROM THE DEMOGRAPHY OF AN UNDERSTORY INSECTIVORE	Hallworth, M. T., Sillett, T. S., Rockwood, L. L., Marra, P. P.: ISEASONAL, INTERACTIONIS ISEASONAL, INTERACTIONIS THE POPULATION GROWTH RATE OF A LONG DISTANCE MIGRATORY SONGBIRD	Peele, A. M.: A FLOATER INVASION: THE OCCURRENCE AND IMPACT OF NON: TERRITORIAL INDIVIDUALS ON WINTERING POPULATIONS OF A MIGRATORY PASSERINE	Cooper, N. W.; Sherry, T. W.; Marra, P. P.; EXPERIMENTAL ERDUCTION OF WINTER FOOD DECREASES BODY CONDITION AND DELAXS MICRATION IN A LONG-DISTANCE MICRATORY BIRD	Olsen, B. J.; Danner, R. M.; Shriver, W. G.; Walters, J. R.; Greenberg, R.: TRADEOFFS BETWBEN MIGRATION DISTANCE AND SEASONAL SURVIVAL IN MIGRATORY SONGBIRDS	Dogger, K. M.; Aniey, D. G.; Ballard, G.; Lyver, P.; Barton, K.; BREDING FROPENITY AND AGE-SPECIFIC SURVINAL OF ADLLIE PENGUINS IN RELATION TO COLONY SIZE WITH RESULTING EFFECTS ON AGE-AT-IST REPRODUCTION	Scopel, L. C., Diamond, A. W.; COLONY COLLAPSE IN AN ARCTIC TERN METAPOPULATION: FOOD, WEATHER, OR PREDATION?	Arces, P., Norris, R., Bilgitt, L., Wilson, S., Krebs, E., Anderson, E.; Werman, D., Hobson, K.; A CENTURY OF CHANGE IN VIROPHIC FEEDING CHANGE IN PREPIXE AND GENERALIST AND GENERALIST MARINE BIRDS OF THE SALISH SEA
Longs Peak-Chasm Lake	S20: Avian Interactions With Energy Infrastructure: Challenges of Being Green	J. Smith	Nielsen, L. A.; Cutlet, P.; Harness, V R. E.; WHITE SANDS MISSILE RANGE-AVIAN POTRECTION T PLAN: POWER LINE BIRD PROTECTION IN SUPPORT OF THE MILITARY MISSIONT F R R R R R R R R R R R R R R R R R R		Hale, A. M.; Hatchett, E. S.; Swens, T. K.; Meyer, J. A.; Rubenstahl, T. G.; Karsten, K. B.; Bemett, V. J.; LIMITED B.; Bemett, V. J.; LIMITED B. FEPCITS OF NIND TURBINES ON GRASSLAND SONGBIRDS?		Smith, J. A.; Olney, J. A.; Whalen, C.; Brown, M. B.; Powell, L. A.; INDIRECT EFFECTS OF A WIND FARM ON PREDATION RISK FARM ON PREDATION RISK PRAINE-CHICKENS*		Camina, A.; CH. López- Hernandez, C.; Oriz, N.: THE EFFECT OF WIND FARMS ON GOLDEN EAGLES IN SPAINT	
Longs Peak-Diamond West	S12: Frontiers in Modeling Bird Populations	C. McGowan	Toms, J. D.; Millspaugh, J. J.; Belant, J. L.; Washburn, B. E.: ESTIMATING SPACE USE IN ETHEE DIMENSIONS: THE IMPORTANCE OF ACCOUNTING FOR BARRIERS TO MOVEMENT		Ruiz-Gutierrez, V.; Kendall, W.L.; F Saracco, F. S.; OVERWINTERING DYNAMICS OF MIGRATORY BIRDS: HOW TO INFER MOVEMENT PATTERNS USING OPEN MULTI-STATE MODELS?		Lyons, J. E.; Nichols, J. D.; McGowan, C. P.; Smith, D. R.; Sweka, J. A.; Kalasz, K. S.; Clark, N. A.; Dey, A. D.; Niles, L. J.; N. A.; Dey, A. D.; Niles, L. J.; MIGRATION ECOLOGY, AND ADAPITYE MANAGEMENT OF	KED KNOIS AI DELAWAKE BAY, USAT	McGowan, C. P.: COMPARING MODELS OF RED KNOT POPULATION DYNAMICS ^T	
Emerald Mountain-Bible Point	809: Alpine Ornithology in 2014: Ecological Adaptations and Challenges for Birds Breeding in Mountain Ecosystems	K. Martin	Martin, K.: THE STATE OF ALPINE AND MONTANE ORNITHOLOGY IN THE AMERICAS: THE PROBLEMS, EMERGING ECOLOGICAL RESEARCH INSIGHTS AND WHY WE SHOULD CARE	Wam, G.T., Akindge, C. L.; Baun, C. E.: INVESTIGATING CHANGES IN ABJUNDANCE, SINGHAL, AND ERROLOCITON OF WHITE-TALLED PTRANGEAN AT BOCKY MOUNTAIN WATTOWAL PRIK USING HISTORIC AND CONTEMPORARY BANDING AND SURVEY DATA	DIION, K. G., Conway, C. J.: WHY ELEVATION MATTERS. INTRASPECIFIC WRATION IN LIFE HISTORY STRATEGIES	Beckmann, C.; Martin, K.; HIGH AND LOW ELEVATION BREEDING CONDITIONS IN THE AUSTRALIAN WOUVTAINS: THE TABLES TURN FOR SOWCHRIDS WHEN THE HEAT WAVES BEGIN	Schondube, J. E.; Maya- Gracia, O.; HIGH ELEVATION HUMMINGBIRD PHYSIOLOGY: SOLIVING THE CHALLENGES OF MEETING HIGH ENERGY REQUIREMENTS AT LOW	With, C. C.: REPEATED GENETIC ADAPTATION TO ALTITUDE IN HUMMINGBIRD HEMOGLOBIN	Boyle, W. A.: ALTITUDINAL BIRD MIGRATION IN THE AMERICAS [†]	
Longs Peak-Diamond East	S03: Ecology and Conservation of Aerial Insectivores	N. Michel	Laughlin, A. J.; Sheldon, D. R.; Winkler, D. W.; Taylor, C. M.; WINTER ROOST SITE SELECTION IN TREE SWALLOWS: TESTING 'HABITAT LIMITATION' VERSUS TRADITION	Fairburst, G. D.; Berzins, L. L.; Badley, D. W.; Romano, A.; Romano, M.; Scandolen, C.; Ambrosonin, R.; Dewon, R. D.; Hobson, K. A.; Liecht, B.; FEATHER CORTICOSTERONE LEVELS, ARE UNAFFECTED BY GEOLOCATORS IN TWO SPECIES OF MICRATORY A REHAL INSECTIVORE	Clark, R. G., Winder, D. W.; Dawson, R. D.; Harriman, V. B., Shuder, D.; Hussell, D.; Lombarlo, M. P.; Thorpe, P. A.; Dann, P. O.; Whitingham, L. A.; SPATIAL AND TEMPORAL VARIATION IN APPARENT SURVIVAL RATES OF TREE SWALLOWS	Bonier, E.;Rendell, W. B.; Robertson, R. J.: LONG-TERM DECLING OF A BREEDING POPULATION OF TREE SWALLOWS (TACHYCINETA BICOLOR) ^T		Morrisey, C., Michelon, C., Statton, R., Main, A., Cavallan, M., Michel, N., Fleadley, J.; Pert, K., Liber, K., Clark, R., C., EXPLORING THE NORECT LINKS BETWEEN INSECTIONE USE AND FFFECTS TO ARRIAL INSECTIVORES. A CASE STUDY FROM THE CANADIAN PRARIES	Belisle, M.: INFLUENCE OF ACRICULTURAL INTENSIFICATION ON THE BREEDING ECOLOGY OF TREE SWALLOWST	
Ruesch Auditorium	S02 Ecological Principles of Emerging Infectious Diseases in Birds	S. Shriner	Dhondt, A. A.; Hawley, D. H.; Dobson, A. P.; Ley, D. H.; Geary, S.; Hochachka, W. M.; Dhondt, K. V.; Williams, P. D.; Tulman, E.; PACTORS DRIVING RAPID CHANGES IN VIRULENCE OF THE BACTERIAL	PALIND-ENDING COTANIA PALINEPITCUM IN HOUSE FINCHES HAEMORHOUS MEXICANUST	Adelman, J. S., Moyers, S. C.; Hawley, D. M.: BEHAVIORAL RISK FACTORS OF MYCOPLASMAL CONJUNCTIVITIS IN HOUSE FINCHES!		Sengal, R. N.: MANIFOLD HABITAT EFFECTS ON THE PREVALENCE AND DIVERSITY OF AVIAN HEMATOZOAT		Takekawa, J. Y.; Prosser, D. J.; Newman, S. H.; Choi, C. Y.; Spragers, K. A.; Palm, E. C.; Xiao, X.: WATERFOWL MIGRATION AND AVIAN INFLUENZA RISKS?	
Room		Mod	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15

Wednesday Afternoon Schedule

Software Miles Software Softwa	Longs reak—Chasm Lake Longs reak—Neynore Longs re	Longs Peak-Granite Pass Longs Peak – Boulder Field
M. The Property of Schools in North Martin, M. Schroeder, M. A. Braun, C. B. F. Fike, J. A.; Adridge, C. L.; Wann, D. P.; Martin, M. E. KAMINIUGE RANGE-WIDE CONNECTIVITY OF MARTIN, M. Camfield, A. F.; Martin, M. Cartin, K.; Cartin, M. Martin, K.; Gergel, S.; CLIMATE-INDICED SURVIVAL. Schroeder, M. M.; Shirk, A. Gergel, S.; CLIMATE-INDICED SURVIVAL. Schroeder, M. A.; Shirk, A. Cornell, A.; Williams, T. D.; Gergel, S.; CLIMATE-INDICED SURVIVAL. Schroeder, M. A.; Shirk, A. Sh	C02C: Climate Change: Wetland Species and Shorebirds	COGE: Migration Tracking, Evolution of Migration and Flightlessness
Oylet-McCance, S. J.; Braun, C. D. F.; Martin, K. M.; ExAMINING CT.; Schroeder, M. A.; Benson, D. P.; Martin, K. M.; EXAMINING MROG. WISCONNECTIVITY IN WHITE-TAILED PTARMIGAN USING GENETIC TECHNIQUES WISON, S.; MacDonald, E. C.; Martin, M.; Camelid, A.; Martin, K.; SONGBRIDS IN CENTRAL BRITISH COLLIMBIA: WARIABLE SEVERE WEATHER Jackson, M. M.; Martin, K.; Gergel, S.; CLIMATFEINDICED HABITAT DECLINES FOR AN BRITISH COLLINES FOR AN ENDEMIC ALPINE SPECIALIST IN A COASTAL ALPINE ECOSYSTEM Schroeder, M. A.; Shirk, A L.; Robb, L. A.; LONG TERM CHANGES IN USTRUBUTION, CHANGES IN USTRUBUTION, CHANGES IN USTRUBUTION, CHANGES IN WESTERN NORTH AMBRICA: IS CLIMATFE CHANGE IN WESTERN NORTH AMBRICA: IS CLIMATE CHANGE RECYOR? Beissinger, S. R.; Tingley, M. THE PRAST CENTURY SHIFTS OF SHERA NEVADA BRIDS AND DOHNEY TAXA OVER ROBINSON, S.; COMPETITION, NET PREDATION AND ELEVATIONAL BROSS OF TROPPEL STREAM NEST PREDATION AND ELEVATIONAL RANGE LIMITS OF STREAM NEST PREDATIONAL NEARES OF TROPPEL STRE	n R. Gibbons	R.S. Terrill
Wilson, S.; MacDonald, E. C., Martin, M.; Cambiel, A. E., Martin, SONGBIRDS IN CENTRAL BRITISH COLUMBIA, WRIABLE RESPONSES TO HABITAT AND SEVER WEATHER Jackson, M. M.; Martin, K.; Gergel, S.; LIAMATI-NIUCED HABITAT DECLINES FOR AN ENDEDICTORS OF JUVENILE HABITAT DECLINES FOR AN AL, Shirk, A. J.; Robb, L. A.; Shirk, A. J.; Robb, A. J.; Robb, A. J.; Robb, A. J.; Ro	Doll, A. C.; Wunder, M. B.; Lanctot, R. B.; Stricker, C. A.: ARCTIC CLIMATTE EVENTS REVEAL TRADEOFE BETWEEN TIMING OF MICRATORY AND NESTING BEHAVIORS	Pletschet, S. M.; Kelly, J. F.; Ragin, T.; Bridge, E. S.; Chilson, P. B.; BIOGEOGRAPHY AND PHENOLOGY OF A MIGRANT SONGRIBD IN NORTH AMRICA QUANTIFIED VIA WEATHER SURVEILLANCE RADAR
Maness, T. J.; Anderson, D. J.: PREDICTORS OF JUVENILE SURVIVAL Cornell, A.; Williams, T. D.: INDIVIDUAL QUALITY AND MULITPLE BROODING MULITPLE BROODING SEX-BASED DIFFERENCES IN ADLILE PRIGUIN CHECK GROWTH RATES ON ROSS ISLAND, ANTARCTICA Ross, J. D.; Kelly, J. E.; Bridge, E. S.; Boyle, W. A.; SEVERE WARTHER, FAULT BARS, AND STABLE ISOTOPE SIGNATURES	Saunders, S. P.; Cuthbert, F. J.; GENETIC AND ENVIRONMENTAL INFLUENCES ALONG THE ON FITNESS-RELATED TRAITS IN AN ENDANGERD SHOREBIRD POPULATION	Horton, K. G.; Stepanian, P. M.; Kelly, J. F.; SPRING MIGRATION ALONG THE EAST COAST, A LOOK AT REFLECTIVITY AND POLARIMETRIC MOMENTS
Cornell, A.; Williams, T. D.: INDIVIDUAL QUALITY AND MULTIPLE BROODING Jennings, S.; Varsani, A.; Dugger, K. M.; Ballard, G.; Ainley, D. G.; SEX-BASED DIFFERRINGES III ADILLIE PENGUIN CLICK GROWTH RATES ON ROSS ISLAND, ANTARCTICA Ross, J. D.; Kelly, J. F.; Bridge, E. S.; Boyle, W. A.; SEVERE WARTHER, FAULT BARS, AND STABLE ISOTOPE SIGNATURES STABLE ISOTOPE SIGNATURES STREES	Gibbons, R. E., Otto, M.: CLIMATE CHANGE DRIVEN IMPLICATIONS BOR BIRDS NT ASSOCIATED WITH HIGH ANDEAN PEATLANDS	Contina, A. J., Bridge, E. S., Ross, J. D.; Kelly, J. F. TESTING CANDIDATE GENES FOR MIGRATION IN THE PAINTED BUNTING
Jennings, S., Varsani, A.; Dugger, K. M.; Ballard, G.; Anley, D. G.; SEX-BASED DIFFERENCES IN ADLLIE PENGUIN CHICK GROWTH RATES ON ROSS ISLAND, ANTARCTICA Ross, J. D.; Kelly, J. F.; Bridge, E. S.; Boyle, W. A.; SEVERE WEATHER, FAULT BARS, AND STABLE ISOTOPE SIGNATURES STABLE ISOTOPE SIGNATURES	K.TEST-OF ECOLOGICAL MSMATCHES IN AN ARCTIC NETWORK R. L. Moore, F. R. Smith, T. MISMATCHES IN AN ARCTIC R. I. DENTIFYING GENES ASSOCIATED WITH MIGR	Johnston, R. A.; Paxton, K. L.; Moone, F. R.; Smith, T. B.: IDENTIFYING GENES ASSOCIATED WITH MIGRATION IN THE SWAINSON'S THRUSH
	Messner, D. J.; Clark, R. G.; Stateny, S. M.; Dever, M. C.; Deriscen, C. INTLUENCE OF SPRING PHENOLOGY ON POPULATION DYNAMICS OF WEST INVESTIGATE. IN OUR STATEMENTS. WATTEREROS, A MULTI-SCALE AND SPECIESIN/PESTIGATION	Wright, N. A.; Wirt, C. C. A NEW ISLAND RULE FOR BRROS. EVOLUTION TOWARDS FLIGHTLESSNESS
	Terril, R. s.: NEOTENOUS FEATHER REPLACEMENT FACILITYTES LOSS OF FILI IN BIRDS	Tertil, R. 8.: NEOTENOUS FEATHER REPLACEMENT FACILITATES LOSS OF FLIGHT IN BIRDS

Thursday Morning Schedule

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Longs Peak - Boulder Field		J. O. Karubian	Behney, A. C.; O'Shaughnessy, R.; Bichhobz, M. W.; Stafford, J. D.; AN SSESSMENT OF FORAGING RISK-TAKING BEHAVIOR USING FIELD-LEVEL FOOD MANIPULATIONS	Latimer, C. E.; Zuckerberg, B.: WEATHER AND LANDSCAPE MEDIATED FORAGING PATTERNS IN WINTERING BIRDS	Lansdorp, O. C.; Terpsma, C.; FORAGING VALUE OF TEMPORARY GRASSLANDS TO BARN SWALLOWS IN AN ACRUCULTURALLY DOMINATED LANDSCAPE	Geary, B., Walter, S. T., Leberg, P. L., Karubian, J.: USE OF GFS TELEMETRY TO RELATE BROWN FELICAN FORAGING AND RREDING ECOLOGY IN THE GULF OF MEXICO	Eaton, R. A.; Lindell, C. A.; Homan, H. J.; Linz, G. M.: INTER-SPECIFIC VARIATION IN AMERICAN ROBIN AND CEDAR WAXWING USE OF CULTIVATED CHERRY ORCHARDS	Wang, A. X.; Hart, P. J.; THE PRESENCE OF AN ECOLOGICAL TRAP IN THE JUVENILE DISPERAL OF A CRITICALLY ENDANGERED HANAMIAN HONEVERBERE, THE ARCHEKOFIE (PALMERA DOLE), A POPULATION-LIMITING LIFE STAGE?	Betts, M. G.; Hadley, A. S.; HUMMINGBIRD FOREPLAY: EXPERIMENTAL EVIDENCE THAT A TROPICA PLANT DISTINGUISHES AMONG HUMMINGBIRD SPECIES	Karubian, I. O.; Ottewell, K.; DiFlori, A.; Browne, L.; Link, A.: A COMPARISON OF THE CBRITIC CONREQUENCES OF SEED DISPERSAL BY LONG- OF SEED DISPERSAL BY LONG- WATTLED UMBREILARIROS VS SPIDER MONKEYS IN ECUADORIAN RAINFOREST
Longs Peak-Granite Pass	C08A: Population Ecology and Demography	S. J. Dinsmore	Forester, T. R., Green, D. Lis Brodo, C. A., El TRAPPORAL VARIATION IN THE DEMOGRAPHY AND DEMOGRAPHY AND REPRITYORY QUALITY OF RIPARIAN SONGBIRDS IN THE OKANAGAN VALLEY	George, T.L.; Shenk, T.; Brgelman, F.; Brgelman, T.: FACTORS INFLUENCING ANNUAL SURVAL OF BROAD- TAILED HUMMINGBRDS IN ROCKY MOUNTAIN NATIONAL PARK	Ruskin, K. J.; Etterson, M. A.; Osen, B. J.; Hodgman, T. p.; Elphick, C. S.; Koneth, A. J.; Sinver, W. G.; King, E.; LATITUDINAL TRENDS IN SALTIMESH SPARROW (AMMODRAMUS CAUDACUTUS) NEST FAILURE FROM COMPETING RISKS	Dinsmore, S. J.: Knopf, F. L.: CASCADING ECOLOGICAL EVENTS: DO BURROWING OWLS REDUCE POPULATION RECRUITMENT OF MOUNTAIN PLOVERS?	Tremblay, J. A.: Barzabal, J. Savard, J. R.: DEMOGRAPHY OF THE BLACK-BACKED WOOPPECKER IN UNBURNED BOREAL FOREST STANDS IN EASTERN CANADA	Holland, A. E.: Byme, M. B.: Bym. A. L.: Byme, M. B.: Bealey, J. C.: FINE-SCALE ASSESSMENT OF SEASONAL HOME ASSESSMENT OF SEASONAL HOME ANNOES FOR RESIDENT BLACK AND TURKEY VULTURES IN THE SOUTHEASTERN UNITED STATES	Ortega, J. C.; Ortega, C. P. NEST SURVIVAL OF A TRUB HABITAT GENERALIST, THE AMERICAN ROBIN, IN SOUTHWEST COLORADO	Macias-Duarte, A.; Panjabi, A. O.; Strasser, E. H.; Levandoski, G.; Rwatcaba-Ortega, I.; Doheny, P. F.; WINTER SURVIVAL OF BARID'S AND GRASSHOPPER, SPARROWS IN CHIHUAHUAN DESERT GRASSLANDS OF MEXICO
Longs Peak-Keyhole	C04C: Evolution Across Ecological and Geographical Gradients	N.R. Friedman	Seehober, G. R. Brunfield, EX. EIDENTIFICATION OF EX. CEPTIONAL BATES OF DIVERSIFICATION AND NICHE EVOLUTION IN THE FAMILY FURNARIIDAE	Friedman, N. R., Remeš, V.: GLOBAL GEOGRAPHIC PATTENISO OF SEXUAL SIZE DIMORPHISM IN BIRDS. SUPPORT FOR A LATITUDINAL TREND?	Danner, R. M.; Greenberg, R.; A CRITICAL, SEASON APPROACH TO ALLENS RULE: BILL SIZE DECLINES WITH WINTER TEMPERATURE IN A COLD TEMPERATIE ENVIRONMENT	Balasubramaniam, P., Rotenberry, J. T.: A TEST OF THE FECUNDITY A OFFSPRING QUALITY TRADE-OFF A HIGH ELEVATIONS: PATTERNS OF LIFE HISTORY VARIATION IN GALLIFORMES ACROSS ELEVATIONAL GRADIENTS	Megna, L. C., Carling, M. D.: ENVIRONMENTAL D.: ENVIRONMENTAL HYBRIDIZING AND NON- HYBRIDIZING PASSERINES	Walsh, J.; Kovach, A. I.; Rowe, A. J.; Kovach, A. I.; Rowe, C.; EXOGENOUS SELLECTION IN AN AVIAN HYBRID ZONE: INTERRENCES FROM GENOTYPE-HABITAT ASSOCIATIONS AND ECOLOGICAL NICHE MODELS	Strozier, L. S.; Reddy, S.; Goodman, S.; Rahenialao, M. J.; CRYPTIC DIVERSIFICATION ON WIDESPREAD SPECIES IN MADAGASCAR	THIE, P. O.; Burns, K. J.; NICHE EVOLUTION AND ITS ROLE IN THE DIVERSIFICATION OF TANAGERS
Lonos Peak-Chasm Lake	S01: Advances in Aeroecology	R. Diehl	Chiison, P. B.: METEOROLOGICAL IMPACTS ON THE ECOLOGY AND BEHAVIOR OF FIXING ANIMALS"		Diehl, R. H.; Peterson, A. C.; THE AIRSPACE AS HABITATT Busita M. S. Edderson, D. A.		Bowlin, M. S., Enstrom, D. A.; Murphy, B. J., Plaza, E.; Jurich, Cochan, W., Cochan, J., THRUSHES USE W. CAN ENERGETICALLY INEFFICIENT STRATEGY WHILE MIGRATING*		Bolus, R. T.; Diehl, R. H.; Deppe, J. L.; Ward, M. P.; Moore, F. R.; Bebrer, G.; Schofield, I. N.; Zerzal, T. J.; AVAILLABILITY AND USE OF SUPPORTIVE WINDS BY MIGRATING LANDBIRDS THAT CROSS THE GULF OF MEXICOT	
Lonos Peak-Diamond West	CO5D: Conservation: Habitat	K.E. Miller	Gallo, T.; Pejchar, L.; LONG- TRAM IMPACTS OF HABITAT MANIPULATION ON SONGBIRDS	Velas, K. L.; Soykan, C.; Schuetz, J. G.; Distler, T. K.: WE ARE NOT IN EUROPE ANYMORE. ANAN RESPONSE TO NATIVE HEDGEROWS IN CALIFORNIA'S CENTRAL VALLEY	MIHER, K. E.; Faulhaber, C. A.: HABITAT SATURATION AND LANDSCAPE PATTERN IN HELARGEST REMAINING POPULATION OF FLORIDA SCRUB-JAYS	Plumb, R. T., Lautenbach, J., Robinson, S. G.; Kraft, J.; Sulins, D.; Haukos, D. A., Pantan, J.C.; Dabligen, D.; EFFECTS OF HABITAT PATCH USE ON BREEDING SEASON SURVIVORSHIP OF LESSER PRAIRIE-CHICKENS IN KANSAS AND COLORADO	McDermott, M. E.; Rodewald, A. D.; Matthews, S. N.: THE CONTRIBUTION OF AGROFORESTRY SYSTEMS TO CONSERVATION OF OVERWINTERING	Wingert, A. K.; Benson, T. J.; ACPORSA SSOSCOATED WITH OCCUPANCY OF BARN OWL NEST BOXES IN ILLINOIS	de Zwaan, D. R.: Roitberg, B.: WESTERN SLATY-ANTSHRIKES HANG COMPARABLE PORAGING PERFORMANCE ACROSS OLD AND REGENERATING TROPICIAL MOIST FOREST IN PANAMA BY ALTERING FORAGING BEHAVIOUR	RIVERS, J. W., Betts, M. CRIPTRINNYE POREST MANAGEMENT PRACTICES REDUCE NEST SURVIVAL AND DESPRENING PRODUCTION. EVIDENCE FROM A LANDSCAPE. SCALE EXPERIMENT
Emerald Mountain-Rible Point	S05: Molecular Biogeography and the Classification Crisis	G. Barrowclough	KIIGKA, J.: ON THE RELATIVE WORTH OF PROSPECIES. "PHYLO-SPECIES." "PHYLO-SPECIES." AND SUBSPECIES IN AVIAN EVOLUTIONARY STUDIES?		Barker, F. K.: TAXONOMIC VARIATION IN CRYPSIS: A SURVEY WITH EXAMPLES FROM WRENS AND BLACKBIRDS!		Chesser, R. T., Isler, M. L.; ANTBIRDS FROM THE AMAZON TO THE ANDES. HOW MUCH DIVERSITY ARE WE OVERLOCKING?"		Cracar, J.: UNDERSTANDING THE NATURE OF DIVERSITY THROUGH UNDERSTANDING THE NATURE OF TAXA ^T	
Longs Peak-Diamond Fast	S10: Conservation Ecology of Montane Birds	B. DeLuca	McFarland, K. P.; Rimmer, C. C.; PRESS, Selbeus, W.; Searl, J. C.; BFRECTS OF A PULSED RESOURCE IN MONTANE FIR FORESTS OF NORTHEASTERN NORTH AMERICA	McCain, C. M.: BLEVATION TRENDS IN BIRD DIVERSITY AND CONSERVATION PRIORITIES	DeLuca, W. W.; McGarigal, K.; Compton, B.; Grand, J.; Plunkert, E.: SPECIES DISTRIBUTION MODELS APPLIED TO LANDSCAPE AND CLIMATE CHANCE PROJECTIONS PREDICT DISTRIBUTIONAL CHANGES OF MONTANE BIRDS	Benkman, C. W.: SURVIVAL AND POPULATION SIZE OF A RESIDENT BIRD SPECIES ARE DECLINING WITH INCREASES IN HOTS SUMMER DAYS	Studds, C. B., McFarland, K. P., Aubry, Y., Rimmer, C. C., Hokson, K. A., Marra, P. R., Messenae, L., STRBEHYDROCEN ISOTOPE MAESURES OF NATAL DISPERSAL PREFLECT ORSEWED POPULATION DECLINES IN A THREATENED MIGRATORY SONGBIRD	Freeman, B. G.; Class Freeman, A. M.; NEW GUINIEAN MONTANE BIRDS ARE RESPONDING TO CLOBAL, WARAINNO BY RAPIDLY SHIFTING THEIR DISTRIBUTIONS UPSLOPE	Parrish, C.; Reitsma, L.; Hunt, P.; McParland, K.; IMPACTS OF WIND DEVELOPMENT ON HIGH-ELEVATION BIRDS IN NORTHERN NEW HAMPSHIRE	Cutting, K. A.; Anderson, M. L.; Beever, E. A.; Schroff, S.; Korb, N.; SYMEWTRY OF SPARROWS IN HIGH-ELEVATION SAGEBRUSH APPEARS MORE STRONGLY DRIVEN BY OPTIMAL-FORAGING THAN COMPETITIVE DYNAMICS
Ruesch Anditorium	S17: The Future of Migratory Connectivity Research	E. Cohen	Cohen, E. B.; Hostetler, J. Sallett, T.S.; Marna, P. P.; A QUANTITATIVE DEFINITION FOR THE STRENGTH OF MIGRATORY CONNECTIVITY	Rushing, C. S.; Hostetler, J. A.; Marra, P. P.; THE ROLE OF DISPERSAL IN DETERMINING MIGRATORY CONNECTIVITY PATTERNS	Paxton, K. L.; Moore, F. R.: REINTERPRETING MIGRATORY BEHAVIOR. MIGRATORY STATAGEGES IN THE CONTEXT OF OTHER PERIODS OF THE ANNUAL CYCLE	Ruegg, K. C.; Anderson, E. C.; Paxton, K.; Apkenas, V.; Lao, S.; Siegel, R. B.; Moroe, F. M.; Smith, T. B.; MAPPING MIGRATION IN A SONOBIRD USING HIGH- RESOLUTION GENETIC TAGS	Hobson, R. A.; Van Wilgenburg, S. L.: THE FUTURE OF STABLE ISOTOPE METHODS TO DETERMINE MIGRATORY CONNECTIVITY IN A GEOLOCATOR WORLD	Hostetler, J. A.; Marra, P. P.; Biglar, T. S.; THE BETECT'S OF MIGRATIONY CONNECTIVITY ON AVIAN POPULATION VIABILITY	Taylor, C. M.; Stutchbury, B.; MODELING THE EFFECTS OF BREDING VERSUS WINTER HABITAT LOSS ON THE POPULATION DYNAMICS OF A NEOTROPICAL MIGRATORY SONGBIRD	Martin, T. G.; Nicol, S.; Chades, I.: OPTIMAL CONSERVATION STRATEGIES FOR MIGRATORY SPECIES
Room		Mod	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45

Thursday Mid-day Schedule

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Longs Peak - Boulder Field	C01A: Behavior 1-Heterospecific interactions	L. Benedict		West, E. H.: Peery, M. Z.: FOOD FOR THOUGHT: THE INFLUENCE OF RESOURCE SUBSIDIES ON THE ECOLOGY AND BEHAVIOR OF STELLER'S JAYS IN PROTECTED AREAS	Swift, K. N.; Marzluff, J. M.: AMERICAN CROW "FUNERALS". SERVE AS MECHANISM OF DANGER LEARNING	McGowan, K. J.; Mandelbaum, G. E.; Clark, A. B.; WHAT, ME WORRY? CHANGES OVER TIME IN MOBBING OF HUMAN "NEST PREDATORS" BY AMERICAN CROWS		Bowman, J. R., Moldoff, D., Shipley, A.: HETEROSPECIFIC EAVESDROPPING BY EASTERN TOWHEES		Benedict, L.: Warning, N.: SPATIAL AND BEHANTORAL RESPONSES OF ROCK WRENS TO CANYON WRENS
Longs Peak-Granite Pass	C08C: Population Ecology	V. L. Winder	Sparks, R. A.; BAVLACKY, C.; HANNI, D.; Panjabi, A. O.; AMULTISCALE VIEW OF SHORTCRASS PRAIRIE BIRD ABUNDANCE AND DISTRIBUTION	Pope, T. L.: 20-YEAR TRENDS FOR RIPARIAN BIRDS IN UTAH	Slater, S. J.; Pye, K. W.; Knight, R. N.; GOLDEN EAGLE TERRITORY OCCUPANCY AND EGG LAYING DEPRESSION IN RELATION TO FIRE AND PREY ABUNDANCE IN THE WEST DESERT OF UTAH	Derbyshive, R. E., Strickbard, D.; Norris, D. R.: AN EXPERIMENTAL SUPPLEMENTATION AND OVER 40 YEARS OF POPLIATON MONITORING SHOW THAT A BORBAL, EOD. CACHING SONGERED IS FOOD-LIMITED	Winder, V. L., Sandercock, B. K., Hagen, C. A., Haukos, D. A., Kesler, D. C., Patren, M. A., Powell, L. A.: LEK STED BIVUE FEMALE RESOURCE USE IN TEN POPULATIONS OF PRAINIE-CHICKENS	Lautenbach, J. M.; Plumb, R. T.; Haukos, D. A.; Pitman, J. C.: SURVIVAL, AND HABITAT SELECTION OF LESSER PRA.RIE-CHICKEN CHICKS AND BROODS	Dugger, K. M.; Forsman, E. D.; Clark, D.A.; Davis, R. J.; and 33 others, STATUS AND TRENDS OF THE WORTHENS POTTED OWL (STIEX OCCIDENVIALS CAURINAL SCAURIAS) PEBULTS OF A RANGE-WIDE META-ANALYSIS	Harris, J. P.; O'Comell, T. J.; HABITATUSE OF GROUND- BASED PREDATORS: UNDERSTANDING RISK FOR NESTING NORTHERN BOBWHITE (COLINUS VIRGINIANUS)
Longs Peak-Keyhole	S14: Alternative views of the origin of birds and the origin of feathers	F. James	Maderson, P. E. REPRESENTING TILLME AND SPACE IN ILLUSTRATIONS OF FEATHER REGENERATION ⁷		Hillenius, W. J.: GROWING A RACHIS. THE TALE OF THE MARCHING BARBS ^T		Quick, D. E.; Ruben, J. A. ; THE DISTINCTLY UN-BIRDLIKE LUNGS OF THEROPOD DINOSAURS [*]		Feduccia, A.: BIRD ORIGINS. PALEONTOLOGY'S TOPSY. TURVY PHYLOGENY ^T	
Longs Peak-Chasm Lake	S01: Advances in Aeroecology	R. Diehl	Winkler, D. W. LIVING ALOFT:O PERSPECTIVES ON THE ARROSPHERE AND HOW BIRDS USE IT. ¹		Gehring, J. L.; Erickson, W.: UNDERSTANDING THE IMPACTS OF COMMUNICATION TOWERS ON BIRDS AND THE POTENTIAL TO REGULATE AS BIRD HABITAT		Erickson, W.; Cehring, J. L.:THE IMPACTS OF WIND ENERGY ON BIRDS: ATTRACTION, AVOIDANCE, FATALITIES, AND METHODS TO REDUCE IMPACTS!		Buler, J. J.: WHAT COMES DOWN MUST GO UP. USING WEATHER SURVEILLANCE RADAR TO LINK ELIGHT LIFTOFF OF BIRDS WITH THEIR TERRESTRIAL HABITAT USET	
Longs Peak-Diamond West	S16: Successes and Challenges in Riparian Restoration: Birds as the Yardstick	C. Tonra	Gardali, T., Cilbert, M. M.; SARAN, N. E., HAGES-SCALE, LONG-TREM, BIRD RESPONSE TO RIVER RESTORATION IN CALIPORNIA'S GREAT CENTRAL VALLEY	Heath, S. K.; McCreedy, C.; Latif, Q. S.; Tonra, C. M.: RESPONSES OF RIPARIAN BIRDS TO (MOSTLY) PASSIVE RESTORATION OF MONO LAKE TRIBUTARIES	Twedt, D. J.: BIRD RESPONSE TO RESTORATION AND MANAGENIENT OF BOTTOMLAND HARDWOOD FOREST	Kus, B. E.: RESTORING HABITAT FOR ENDANGERED SPECIES: THE CASE OF THE LEAST BELL'S VIREO	Paxton, E. H.; Sogge, M. K.; Theimer, T. C.: DYNAMIC STRATEGIES FOR A DYNAMIC ABTATT: CONSERVING RIPARIAN HABITAT FOR BIRDS IN THE SOUTHWEST	CAIL E. M.; Huner, M. L.; RIVER BIRDS AS RESTORATION BARLINES – TRACKING MAPLICATIONS OF DAM REMOVAL AND RETURN OF DIADNOMOUS FISH IN MAINE WATERSHEDS	Toura, C. M.; Sager-Fradkin, K.; Marra, P. P.; TRACKING THE RETURN OF CRITICAL, UNITRENT SUBSIDIES TO WESTERN REPARAN ECONSTRENS FOLLOWING DAM REMONAL: THE WALLE OF SONCBIRDS AS BICHNDICKTORS	Seavy, N. E.; Cornier, R. L.; Golet, G.; Kelesy, R.; Gardai, T.; HOW DO BOSIGON RESTORATION FOR RIPARAN BIRDSY CHALLENGES AND OPPORTUNITIES
Emerald Mountain-Bible Point	S05: Molecular Biogeography and the Classification Crisis	G. Barrowclough	GIII, R. B.: WORLD BIRD SPECIES - PAST AND FUTURET		Baker A. J.; Weir, J.; Tavares, E.: RELEVANCE OF NEWLY DISCOVERED GENETIC DISCOVERED GENETIC AND CONSERVATION OF ENDANGERED BIRDS ^T		Reddy, 8.: ONE STEP FORWARD, TWO STEPS BACK: TAXONOMIC CONFUSION IN TROPICAL ASIAT		Joseph, L.: AUSTRALO- PAPÚAN PERSPECTIVES ON MOLECULAR BIOGEOGRAPHY AND THE CLASSIFICATION CRISIST	
Longs Peak-Diamond East	C09A: Models and Methods 1	D.B. McDonald	dockman, E. V.; Buehler, D. Prevost, S.; GEOGRAPHIC ARLATION IN BIRDSONG. WILL AUTOMATED DETECTION ALGORITHMS EVER WORK?	Buellet, D. A.; Hodrmar, E. Y.; Prevost, S. C.; Wikerson, J. B.; Smith, D. R.; Fischer, R. A.; DEMONSTRATION AND IMPLEMENTATION OF OUTTONOMOUS AERIAL ACOUSTIC RECORDING SYSTEMS TO MONITOR BRD. PRODUNGS TO MINACCESSIBLE AREAS	Williams, K. A., Senfouse, I. J., Adams, E. M., Charles, E. Dun, M., Cilber, A. T. COURNESON OF SHIPTONE DEFINITION WIDEA JERUAL, SURFET TECHNOLOR FOR CONDUCTING SHIPTING SHAPE FOR CONDUCTING SHAPE FOR CONDUCTING SHAPE FOR THE STATE OF THE STATE OF THE SHAPE FOR THE STATE OF	Rigby, E. A.; Johnson, D. H.; MODELING DETECTABILITY IN BRD SURVEYS: A NEW, EXTENSIVE SIMULATION	Olsen, A. M.: UNLOCKING THE DIET DATA OF THE PAST: A NEW R PACKAGE FOR COMPILING AND QUERYING DIET DATASETS	Vander Zanden, H. B.: Wunder, M. B.: Hobson, K. A.: Van Wilgenburg, S. L.: Wassenaar, L. I.; Welker, J. M.: Bowen, G. J.: DOY PEAR-SPECIFOR PREDICTIONS OF MIGRATORY ORIGIN?	Landoll, D. V.; Husak, M. S.; TESTING THE PREDICTED RELATIONSHIP BETWERN WING AND TALL MORPHOLOGY AND FLIGHT PERFORMANCE USING SCISSOR-TAILED FLYCATCHERS	McDonald, D. B.: GENETIC ALGORITHMS POR NON- GENETIC SOCIAL NETWORK GENETICS OF DISEASE OR INFORMATION TRANSMISSION
Ruesch Auditorium	C06C: Migration Strategies, Timing, and Routes 1	E. M. Kirsch	Heckscher, C. M.; Odrierrez Ramirez, M.; Kraeld, A. H. NOWI-TRADETOROMAL USE PG GEOLOCACIONS REWAL PRECISE RAMFORTSIROPARAL PRECISE RAMFORTSIROPARAL PRECISE RAMFORTSIROPARAL PRECISE RAMFORTSIROPARAL PRECISE RAMFORT TRANS-CULF-VICKTIN VERNIS TRANS-CULF-CARIBERAN SEA MIGRATION ROUTES TO SOUTH AMERICA	Hanser, S. E.; Knick, S. T.; FALL HABITAT SELECTION AND MIGRATION PATHWAYS SAGBRUUSH-OBLIGATE PASSERNIES IN THE INTERMOUNTAIN WEST	Corniet, R. L.; Humple, D. L.; Seavy, N. E.; Gardell, T.; EVIDENCE OF A MIGRATORY DIVIDE ACROSS THE CALIFORNIA WINTTENIG RANGE OF THE GOLDEN-CROWNED SPARROW	Gren, D. J. Röhmond, A.; Dale, A.; ENGO-RELATED CLIMATE CONDITIONS ANNALS, SERVINAL OF YELLOW WARBLES, UNRAVELLING THE EFFECTS OF WESTERLY WINDS, STORMS, AND RAINFALL ON MICRATION	Ross, E. J.; Prince, K.; Zuckerberg, B.; CLIMATTE CONDITIONS ON THE PROJOCOF OR THE	Adams, E. M.; Olsen, B. J.: EFFECTS OF CHANGING GLOBAL CLIMATE, LOCAL WEATHER, AND HABITAT ON SONGERED MIGRATORY PHENOLOGY AND ABUNDANCE	Gow, E. A.; Wiebe, K. L.; THE INFLUENCE OF EXTRINSIC FACTORS ON MIGRATORY TIMING AND REPRODUCTION IN A DIFFERENTIAL MIGRANT	WITHINGS, R. A.; Keenan, P. C.; Tsah, I.; Adams, E. M.; Coodale, M. W.; THE INFLIENCE OF WEATHER, LANDCOVER, AND GEOGRAPHY ON NORTHERN SAW-WHET OWIL (AEGOLIUS, ACADICUS) MIGRATION IN COASTAL MAINE
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Thursday Afternoon Schedule

Longs Peak - Boulder Field	C15A: Extrapair Mating and Divorce	E. H. DuVal	Celis Murillo, A.; Benson, Li Barna, L.; Sabelsky W.; Ward, M. P.; GCHEATING FOR EVERYONE? PATTERNS OF EVERYONE? PATTERNS SAND EXTRATERNITORIAL FORANS AND EXTRA-PAIR PATTERNITY IN FIELD SPARROWS (SPIZELIA PUSILIA)	Kaiser, S. A.; Risk, B. B.; Sillett, T. S.; Webster, M. S.: ECOLOGICAL AND TEMPORAL CONSTRAINTS AFPECT THE OPPORTUNITY FOR EXTRA-PAIR MATING. IN THE BLACK-THROATED BLUE WARELER	Berzins, L. L.; Shrimpton, J. M.; Dawson, R. D.; EXPERIMENTAL ALTERATION OF PRE-BREEDING HORMONES IN FEMALE TREE SYMALLOWS INFUENCES EXTRA-PAIR COPULATIONS AND REPRODUCTIVE SUCCESS	Lehmicke, A. J.; Naim, C. J.; Cooper, R. J.; NEST-LEVEL AND INDIVIDUAL CORRELATES OF EXTRA-PAIR PYTERNITY IN THE SEASIDE SPARROW (AMMODRAMUS MARITIMUS)	DDVAI, E. H.: SHOWING YOUR AGE AGE-LINKED MALE PHENOTYPES ARE UNRELATED TO FEMALE MATE CHOICE IN THE LANCE TAILED MANARIN DESPITE AGE-SPECIFIC MALE REPRODUCTIVE SUCCESS	Wheelwright, N. T., Teplisky, C., INHERITANCE OF DIVORCE IN SAYANNAH SPARROWS. NEITHER GENETIC NOR CULTURAL
Longs Peal	C15A: Extra	щ		Kaiser, S. A.; S.; Webster, M. AND TEMPOI AFFECT THE FOR EXTRA-I THE BLACK-I WARBLER	Berzins, L. L.; Shrimpton., Dawson, R. D.; EXPERIMER ALTERATION OF PRE-BRE HORMONES IN FEMALE SWALLOWNS INFUJENCES EXTRA-PAIR COPULATION AND REPRODUCTIVE SUG	Lehmicke, A. Cooper, R. J.: I INDIVIDUAL OF EXTRA-PA IN THE SEASI		
Longs Peak-Granite Pass	C17B: Nests, Nest Site Selection, and Reproductive Synchrony	T. J. Lorenz	Akresh, M. E., King. D. I.: CLIMATE, PLANTE LEAFING PHENOLOGY, AND OTHER PACTORS AFFECT NEST-SITE ELECTON AND NEST SURVIVAL OF PRARIE WARBLERS IN A MIXED-OAK SHRUBLAND	Deaner, L. M.: Chandler, C. R.: NEST SITE SELECTION AND REPRODUCTIVE SUCCESS OF WILSON'S PLOVERS ON CUMBERLAND SISAND NATIONAL SEASHORE, GEORGIA	LOYBRA, T. J.; Vierling, K. T.; Johnson, T. R.; Fischer, P. C.; CHOICE OR CONSTRAINT? THE ROLE OF WOOD HARDNESS IN LIMITING NEST SITE SELECTION IN NORTH AMERICAN WOODPECKERS	Henson, S. M.; Saint Martin, W.; Hayward, J. L.; TRADEOFF BETWEEN DAILY AND YEARLY REPRODUCTIVE SYNCHRONY IN COLONIAL SEABIRDS	Sandler, A. G.; Megna, L. C.; Henson, S. M.; Hayward, J. L.; BORY-CYTHER-DAY OVULATION SYNCHRONY, HIGH NESTING DENSITY, AND EGG LOSS IN A COLONY OF RING-BILLED GULLS (LARUS DELAWARENSIS)	Warning, N.; Benedict, L.; PATMIG THE WAY: FUNCTIONAL NEST MENTERCTURE OF THE ROCK WREN
Longs Peak-Keyhole	\$14: Alternative views of the origin of birds and the origin of feathers	F. James	Falk, A. R.; Burnham, D. A.; NEW INSIGHTS ON THE LIFE HABITS OF COMFUCIUSORMIS	Geist, N. R.: DIFFERENCES IN REPRODUCTIVE BEHAVIOR AND EMBRYONIC AND JUVENILE DEPLOPMENT IN DINOSAURS AND BIRDS: IMPLICATIONS FOR AVIAN ORIGINS	Hertel, F.; Campbell, Jr., K. E.; FLIGHT ARCHITECTURE, SPLAYED LEGS AND THE EVOLUTION OF WADDLING IN BIRDS	Pourtless, J. A.; James, F. C; CONFLICTING INTERPRETATIONS OF THE "THERMOPOLIS" ARCHAEOPTERY AND THE COMPLEX PROBLEM OF BIRD ORIGINS	Ruben, J.: OVERLOOKED SPECIMENS, OVERLOOKED ANALYSES. AVIAN ORIGINS RECONSIDERED	
Longs Peak-Chasm Lake	S01: Advances in Aeroecology	ATING RRS TO OGGY OF		Farnsworth, A.; Van Doren, B. M.; Sheldon, D.; Geevarghese, J.; Minner, K.; Irwa, L.; Enkl. D.; La Sorte, E.; Dieterich, T. G.; Kelling, S. T.; STRATEGIES FOR MASS. S. T.; STRATEGIES FOR MASS. TRANSITI NY THE ARROSPHERE. PREJATING PATTERNS OF AUTUMN DOCTURNAL AUTUMN DOCTURNAL MIGRATION PROM RADAR TO OBSERWITIONAL DATA IN THE NORTHEASTERN US'		Bridge, E. S.: EMERCING TECHNOLOGIES FOR MONITORING SMALL BIRDS IN THE AEROSPHERET		
Longs Peak-Diamond West	C02A: Climate Change and Distribution	D. N. Bonter	Rodewald, P. G.; Shumar, M. Badorik, E.; Bhumar, M. Badorik, E.; Matthews, S. N.; TWENTY-FIVE YEAR CHANGES IN BREEDING BIRD DISTRBUTTON BASED ON THE SECOND OHIO BREEDING BIRD ATLAS	Steen, V. A.; Skagen, S. K.; Noon, B. R.; CLIMATIC IMPACTS ON THE HABITAT RELATIONSHIPS AND DISTRUBLINON PATTERNS OF MICRATING SHOREBIRDS IN THE PRAIRIE POTHOLE REGION	Feldman, R. E., Miller-Rushing, A. J., King, D. I., Griffin, C. R.: THE SHAKE-UP OF THE SPECIES ANGE: TEMPERATURE CHANGE SHIFTS THE INTERNAL STRUCTURE OF AVIAN SPECIES RANGES	MacLean, S. A.; Beissinger, S. R.: DO SPECIES' TRAITS PREDICT VARIATION IN RANGE SHIFTS OF BIRDS?	Bonter, D. N.; Greig, E. I.: WINTER RANGE EXPANSION IN ANNA'S HUMMINGBIRDS. THE INTERPLAY OF CLIMATE, HABITAI, AND SUPPLEMENTAL FEEDING	Sofaet H. R.; Steen, V. A.; Skagen, R.; Kileeting, J. A.; Noon, B. R.; PROJECTED EFFECTS OF CLIMATE CHANGE ON THE UILLITY OF SURROČAFTE SPECTES APPROÁCHES IN THE PRAINE POTHOLE REGION
Emerald Mountain-Bible Point	S05: Molecular Biogeography and the Classification Crisis	G. Barrowclough	Bowie, R. C.: SUBSPECIES AS AXAONOMIC BRITTIES OR AS BAREY INDICATORS OF ADAPTIVE DIVERGENCE: AN AFRICAN PERSPECTIVE!		ZINK, R. M.: THE IMPORTANCE OF VALID TAXONOMY AT THE INTRA-SPECIFIC LEVEL!		Barowclough, G. F.: EFFECTIVE POPULATION SIZE, COALESCENCE, AND EPHEMERAL DIVERSITY: A TAXONOMIC CHALLENGET	
Longs Peak-Diamond East	C09B: Models and Methods 2	N. Luzun'aga	Luzuriaga, N. L., Jiguet, F. Leran, S. V., Berny, H. P., Tapia, W. T., HETEROGENETY IN OBSERVER SKILLS OF IN OBSERVER SKILLS OF ATTOTONAL PREW AT COUNTING BIREDS IN THE GALPPAGOS ISLANDS	Tsai, W. L., McCormack, J. E., Fairoloth, B. C.: PERFORMANCE OF SEQUENCE CAPTURE TARGETING THOUSANDS OF LOCI ON BIRD MISEUM SPECIMENS FROM THE 1880S TO PRESENT	Brauch, J.: EVALUATION OF POPULATION MONITORING STRATEGIES POR GREATER SAGE-GROUES: GENETIC MARK-RECAPTURE AS AN ALTERNATIVE TO TRADITIONAL LEK COUNTS.	Philips, J. L.; Kelley, J. P.; Patricell, G. L.; SO WHAT IS GLOGERS RULE? NO ONE DEFINITION IS SUPPORTED BY FIVE AVIAN SPECIES THAT FOLLOW IT	Hayward, J. L.; Henson, S. M.: HOT AND BOTHERED: CLIMATE CHANGE, CANNIBALISM, AND OVULATION SYNCHRONY IN GULLS	Skeen, H. R.; Weckstein, J. D.; Hacktr, S.; Reddy, S. ORGIN AND DIVERSITICATION OF A FRICAN LEUCOCYTOZOON IN A GLOBAL CONTEXT
Ruesch Auditorium	C06D: Migration Strategies, Timing, and Routes 2	D. J. Green	Lundblad, C. G.; Cowway, C. J.; WHY DO SOMBERT NOT ALL BIRDS MICHATIET TESTS OF MECHANISTIC HYPOTHESES IN YELLOW-EYED JUNCOS.	Dale, C. A.; Nocera, J. J.; Franks, S. E.; Kyser, T. K.; Ratcliffe, L. M.: CORRELATES OF ALTERNATIVE MIGRATORY STRATEGIES IN A PARTIALLY MIGRATORY PASSERINE	Peterson, A.; Niemi, C.; Johnson, D.; PATTERNS IN DIURNAL AIRSPACE USE BY MIGRATORY LANDBIRDS ALONG AN ECOLOGICAL BARRIER	Dossman, B. D.; Mitchell, G. W.; Rodewald, P. G.; Matthews, S. N.: INDIVIDUAL ROUTE CHOICE IS DENUEN BY PAVORABLE INDIVIDUAL NOVAN MIGRATORY SONGBIRDS	Kirsch, E. M.; Weilk, M. J.: SPRING WEATHER AND TREE PREHOLOCOY INFLUENCES TREE PREFERENCES OF PORAGING BIRDS DURING SPRING MIGRATION IN UPPER MISSISSIPPI RIVER FLOODPLAIN FORESTS	Bridge, E. S.; Ross, J. D.; Contina, A.; Ross, J. D.; Contina, A.; Ross, J. E.; HOW WELL DOES PRIMARY PRODUCTIVITY EXPLAIN MOLT-MICRATION IN WESTERN SONGBIRDS?
Room		Mod 16:00 M V V V V V V V V V V V V V V V V V V		16:30	16.45	17:00	17:15	

Friday Morning Schedule

Longs Peak - Boulder Field								
Longs Peak-Granite Pass Lon	C02B: Climate Change Response	B. O. Wolf	Wolf, B. O.; Mckechnie, A. E.; Gerson, A. R.; Smith, E. K.; Talbot, W. A.; Whitfield, M. C.; Smit, B.; O'Neil, J. J.; McWhorter, T. J.; SENSITIVITY TO EXTREME HEAT VARIES GREATLY AMONG	Cooper, C. B.; Hochachka, W.; Andre Dhondt, A. A.; Degaetano, A.: SHIFTS IN LAYING DATE AND STASIS IN PARTIAL HATICHING IN RESPONSE TO A CHANGING CLIMATE	Anderson, A. M.; Heath, J. A.; Novak, S. J.; Smith, J. F.; Steenhof, K.: DO WINTERING STRATIEGY VARRY-O'R REFERENTS ON NEST NUTIVATION AND MATE CHOICE RACILITATE POPULATION RESPONSE TO CLIMATE CHANGE IN A PARTIAL MIGRANT, THE AMERICAN KESTREL?	Borgman, C. C.; Wolf, B. O.; REPRODUCTIVE DYNAMICS OF LOGGENHEAD SHRIKES IN THE ARID SOUTHWEST; EFFECTS OF PRECIPITATION AND TEMPERATURE	Cruz-McDonnell, K. K.; Wolf, B. O. EFFECTS OF INCREASING THAMPREATURES AND DROUGHT ON THE POPULATION DYNAMICS AND REPRODUCTION OF BURROWING OWLS IN THE ARID SOUTHWEST	Fisichelli, N.A.; Monahan, W. B.; Fletex, M.; E, Mathews, S. N.; FOREGASTING RREDING BIRD HABITAT SUITABILITY FOR THE AGADIA NATIONAL PARK REGION: MPLICATIONS FOR MONITORING, MANAGEMENT, AND EDUCATION.
Longs Peak-Keyhole L	C03B: Community Ecology: Exotics, Disturbance, and Urbanization	R. Y. Conrey	Conrey, R. Y.; Tripp, D. W.; Youngberg, E. N.; Panjabi, A. O.; Gers AVIAN RESPONSE TO PLAGUE W. A MANAGEMENT ON BLACK O'N TAILED AND GUNNISON'S SEN	Johnson, K. M.; Arcese, P.; Coo COMPETITION BETWEEN SONG SPARROWS AND POX ASPARROWS ON MANDARTE AND ISLAND CHA	Combie, M. D., Germain, Ande R. R.; Arcese, P.: INVASIVE PLANTS WITH DIFFERRIT TRAITS SOLICIT A DISPARATE RESPONSE BY AN ISLAND SONG SPARROW POPULATION	ROGEWAIG, A. D.: BOR EXPERIMENTAL REMOVAL REP OF HONEYSUCKLE AND LOG CONSEQUENCES FOR ANII LANT-BIRD-PREDATOR OF F COMMUNITIES TEM	DeLap, J. H., Marzluff, J. M.: THE RESPONSE OF BIRD COMMUNITIES TO NEWLY ON TEM COMMUNITIES BUR SUMMUNITIES BUR SOU	Fristoe, T. S., Murthy, A., Burger, Frisd, J. R., The HOMOGGANIZING B., FREFECT OF URBAN I. LAND COVER ON NORTH AMERICAN MINTER BIRD DIVERSITY MAN
Longs Peak-Chasm Lake	C06B: Migration Physiology, Energetics, and Risk	Z. R. Cooper	Covino, R. M.; Moore, F. R.; Moore, S. R.: PATTERNS OF CIRCULATING TESTOSTERONE MARBLERS DURING SPRING MARRED OF MIGRATION MIGRATION	Gutierrez Ramirez, M.; Kneidel, J A. H.; Lester, L. A.; Heckscher, C. M.: AN ASSESSMENT OF SELECT SERING TRANS-GULF MIGRANTS ON A FLORIDA GULF COAST BARRIER ISLAND	DuBay, S. G.: PHYSIOLOGICAL MECHANISMS OF DIFFERENTIAL ALTITUDINAL PROGRATION BY AGE AND SEX CLASS IN THE HIMALAYAN BLUGTAIL (TARSIGER SUFFICIALS)	Cooper, Z. R., O'Connell, T. J., Cox, S. W., Gorbet, A. C.: AGE- ERLATED DIFFRENCE IN BODY CONDITION POR FALL- MIGRANT CHIPPING SPARROWS IN THE MIDDLE RIO GRANDE VALLEY, NEW MEXICO	Gruzei, D. P.; Olsen, B. J.: LONGER DISTANCE MIGRANT PASSERINES ARE MORE AVERSE TO PREDATION RISK DURING MIGRATION	McCabe, J. D.; Osen, B. J.: THE INTRACTION BETWEEN INSK JANDANCE AND FORAGING QUALITY ON THE STOPOVER CHARITAT USE OF MIGRANT LANDBIRDS
Longs Peak-Diamond West	C13A: Songs and Vocalizations	K. D. Rivera-Cáceres	Gentry, K. E.; Luther, D. A.; ANTHROPOGENIC NOISE AFFECTS SINGING BEHAVIOR AND PHENOLOGY OF DAWN CHORUS	ANTER, B. E.; KOPER, N.: DOES INFRASTRUCTURE NOISE INTERFERE WITH ALARM COMMUNICATION IN SAVANNAH SPARROWS?	Shah, S. S.; Bonter, D. N.; MacLean, S. A.; Greig, E. L.; RiSK- BASED ALARM/CALLING IN HERRING GULLS	Randall, C. A.; Neudorf, D.; THE FUNCTION AND STRUCTURE OF SOWD DELIVERED BY MALE CAROLINA WRENS (THRYOTHORUS LIDOVICIANUS) DURING NESTLING PROVISIONING IN URBAN AND RURAL HABITATS	Sandoval, L.: Mendez, C.: WHITE-EARED GROUND- SERGOW MIGLOZONB LEUCOTIS) CALL IS A DOUBLE FUNCTION SIGNAL: THE IMPORTANCE OF THE CALL RATE	Rivera-Cáceres, K. D.; COMOS Guerrera, E. DUET COORDINATION AND DUET CODE IN JUVENILE PLAIN WRENS
Emerald Mountain-Bible Point	C17C: Breeding Biology	A.C. Borowske	Newbrey, J. L., Pazskowski, C. A.; McGraw, K. J.; Ogle, S.: ILATING-SEQUENCE VARIATION ILYOVIC CAROTANDIDS AND EGG CHARACTERISTICS IN THE RED-WINGED BLACKBIRD	Folkerts, M. M.; Ingold, J. L.; Johnson, E. I.; Westphal, K. A.; Vincent, T. I.; VARIATION IN OREEN HERON NESTING SUCCESS IN COASTAL LOUISIANA MARSHES	Inselman, W. M.; Datta, S.; Jenks, J. A.; Jensen, K. C.; Swanson, C. C.; Grvenburg, T. W.; BNTBO ECCOLOGY-AN INTENSIVE STUDY OF SWAINSONY HAWKS (BUTEO SWAINSONI) ON THE NORTHERN GREAT PLAINS	Michelson, C. I.; Morrissey, C. A.; Stanton, R. L.; Clark, R. G.; EFFECTS OF AGRICULT/RAL INTENSIFICATION ON TREE SYMALLOW! (TACHYCINETA BICOLOR), REPRODUCTION AND NESTLING BODY CONDITION	Tucker, A. M.; Dyer, R. J.; Hüber, S. K.; Bulback, L. P.; CONSPECIFIC BROOD PRARATISM AS AN ALTENATIVE BREDING STRATEGY IN BOX-NESTING PROTHONOTARY WARBLERS PROTHONOTARY WARBLERS (PROTONOTARIA CITREA)	Borowske, A. C.; Elphick, S.; Kern, R.; Sirver, W. G.; IMPLICATIONS OF FEATHER WEAR AND FAULT BARS: A COMPARISON OF SPECIES, SEXES, AND AGES
Longs Peak-Diamond East	C11B: Habitat Relationships: Agriculture and Grasslands	C. M. Lituma	Gastezzi-Arias, P., Vargas-Masis, R.; Di Mare-Hering, M.; Martinez, D.; Maglianes-Sandoz, M.; COMRABISON OF BIRDS REPRODUCTIVE EVENTS IN CONVENTIONAL AND OKGANU PINEAPPLE CROPS IN SAN CARLOS, COSTA RICA (2012-2013)	Tsai, J.; Chang, K.; Hsu, F.; AVIAN COMMUNITY COMPOSITION OF BETEL NUT PLANTATIONS AND SECONDARY FOREST. THE INFLUENCES OF VEGETATION STRUCTURE ON FORAGING GUILDS	Pringle, H. E.; Leather, S. R.; Crawley, M. J.; Sage, R. B.: THE BREEDING ECOLOGY OF LAPWINGS IN ENERGY CROPS	Lituma, C. M.: Keyser, P. D.; Harper, C. A.: Morgan, J.; Holcomb, E. RESTORING MPERILED GRASSLAND BIRDS THROUGH GRAZING INNOVATION IN THE EASTERN UNITED STATES	WITHEY, J. C.; LOPEZ, L.; BREEDING AND MIGRATORY LANDBIRD COMMUNITY RESPONSES TO HARDWOOD HAMMOCK PATCH SIZE AND LANDSCAPE CONTEXT IN SOUTH FLORIDA	Jirinec, V., Leu, M.: WOOD HINGSH MATCH ASSACIATIONS: IMPLICATIONS FOR SPECIES PERSISTENCE IN A HUMAN-MODIFIED LANDSCAPE
Ruesch Auditorium	C05B: Conservation: Energy Development	B.L. Walker	Walker, B. L.: GREATER SAGE- GROUSE CONSERVATION AND MANAGEMENT IN OIL AND GAS FIELDS OF NOVETHWESTERN COLORADO: HOW WELL DO LEK BUFFERS WORK?	Mason, J. T.; McClure, C. J.; Barber, J. R.; THE IMPACT OF NATURAL GAS COMPRESSOR STATION NOISE ON NORTHERN SAWAWET OWL HUNTING ABILITY	Koper, M.; Rosa, P.; Swider, C.; Nenninger, H.; Bernath- Plaksed, J.; EFFECTS OF OIL INFASTRUCTARE AND OPFEATING NOISE ON GRASSLAND SONGBIRDS	Unruh, J. H., Davis, S. K.: BFFECTS OF OIL DEVELOPMENT ON GRASSLAND SONGBIRDS	Bombad, S. P.; Pejchar, L.; Gallo, T.: BIRDS LOSING GROUND TO HABITAT MITIGATION IN A REGION UNDERGOING RAPID ENERGY DEVELOPMENT	
Room		Mod	08:30	08:45	00:60	09:15	08:30	09:45

Friday Mid-day Schedule

Longs Peak – Boulder Field										
Longs 1										
Longs Peak-Granite Pass	S19: Value Added in Bird Monitoring: Capture and Banding Provide New Insights	C. J. Ralph	Raiph, C. J.: INTRODUCTION TO SYMPOSIUM S19	Brunton, D. H.; Baillie, S. M.; Blanchard, W.; UNDRSTANDING DISPERSAL, BOYC CONDITION AND DISPEASE DYNAMICS BY MONITORING BANDED INDIVIDIALS WITHIN AND BETWEEN POPULATIONS; INFORMING SPECIES CONSERVATION	Carlisle, J. D.; Miller, R. A.; Ware, H. E.; Barber, J. R.; Heath, J. A.; McClure, C. J.; Paprock, J.; Kaltenecker, G. S.; BEVOND MIGRATION BANDING: UNDERSTANDING FACTORS AFFECTING STOPOVER SUCCESS IN AUTUMNI LANDBIRD MIGRANTS	Ruegg, K. C.: INTEGRATION OF GENETIC AND BANDING DATA TO INFORM MIGRANT ECOLOGY, EVOLUTION AND CONSERVATION	Alexander, J.D.; Rajph, C. J.; Rockwell, S. M.; Frey, R. L.; Stephens, J. L.; TRENDSS IN ABUNDANCE BOUNTIVITY PROM 12 YEARS OF CONSTANT EFFORT MIST NETTING IN THE R. CAMATH-SISKIYOU BIOREGION OF SOUTHERN OREGON AND NORTHERN CALIFORNUA.	Ruiz-Gutiérrez, V.; Saracco, J. F.; DeSante, D. F.; BROAD-SCALE BD:BANDING TO INFORM THE DYNAMICS, DEMOGRAPHY, AND MIGRATORY CONNECTIVITY OF LANDBIRDS	Moore, F. R.; Paxton, K. L.; Cohen, E. B.; Lain, E. J.; Paxton, E. B.; Canzal, T. J.; Nemeth, Z.; Diehl, R.; LONG TERM BANDING, ENVIRONMENTAL CHANGE AND MIGRATION BIOLOGY	Leitner, W. A.; Ralph, P. L.; Ralph, C. L.: ESTIMATING SHIFTS IN THE ARRIVAL TIMES OF MIGRANT BREDING BIRDS FROM CONSTANT EFFORT MONITORING DATA
Longs Peak-Keyhole	C03D: Community Ecology: Interactions Across Time and Space	V. J. Dreitz	Tomback, D. F. Scott, J. D.; Wunder, M. B.; McKimey, S. T.; WHITEBARK MINEC OND PRODUCTION AND THE PROBABILITY OF STAND VISTATION BY CLARK'S NUTCRAKCHE. ASSESSMENTS FROM CLACIER AND WATERTON LAKES NATIONAL PARKS.	Pansing E. R.; Tomback, D. F.; Wunder, M. B.; Wagner, A. C.; Ferenh, J. F.; CERMINATION AND SEEDLING SURVIVAL. OF COMMON CLARK'S NUTCRACKER CACHE LOCATIONS AND CONSEQUENCES OF CACHE PILFERAGE	Garfinkel, M.: Johnson, M.: PEST- REMOVAL SERVICES PROVIDED BY SONGBIRDS ON SMALL ORGANIC ROW CROP FARMS IN HUMBOLDT COUNTY, CA	Dreitz, V. J.; Stinson, L. T.; Hahn, B. A.; Lukacs, P. M.: A MULTI- SCALE PERSPECTIVE FOR MANAGING PRAIRIE AVIFAUNA ASSEMBLAGES ACROSS THE WESTERN US	Atto, F. A.; O'Cornell, T. J.; QUANTIFYING THE SPATIO- TEMPORAL DISTRIBUTION OF MULTIPLE RAPTORS IN MIXED- GRASS PRAIRIE LANDSCAPES	Porzig B. L.; Seav, N. E.; Eadie, J. M.; Humple, D. L.; Geupel, G. R.; Gardali, T.: INTERSPECIFIC INTERACTIONS, POPULATION VARIATION, AND ENVIRONMENTAL FORCING IN THE CONTEXT OF THE COMMUNITY	Ozeiski-McKelvy, A., Nott, M. P., Marne, I. L., PREDICTING DEMOGRAPHY ACROSS LANDSCAPES AND IMPLICATIONS FOR SOURCE-SINK APPLICATIONS. AN EXAMPLE USING YELLOW WARBLERS (SETOPHAGA PETECHIA)	Peiman, K. S.; Grether, G. P. FURTERRENGE AND EXPLOITATIVE COMPETITION BETWEEN A MIGRANT AND RESIDENT PASSERINE DURING THE NON-BREEDING SEASON
Longs Peak-Chasm Lake	C19: Systematics/Taxonomy	D. L. Slager	Slager, D. L., Battey, C. J., Bryson, Jr., R. W.; Voelker, G.; Klicka, J.; A. MULTILOCUS PHYLOGENY OF A MAJOR NEW WORLD AVIAN RADIATION: THE VIREONIDAE	Kimball, R. T.; Braun, E. L.; Hosner, P. A.; Glenn, T. C.; Hardch, B. C.; RESOLVING CONFLICTS AMONG GALLIPORAM PHYLOGENIES USING ULTRA-CONSERVED ELEMENTS	Braun, E. L.; Kimball, R. T.; Meiklejohn, K. A.; Hosner, P. A.; Kumar, A.; Glem, T. C.; Faircloth, B. C.; SMALL GENOMES IN THE BEA OF BIG DATA: PHYLOGENY AND PATTERNS OF MOLECULAR EVOLUTION FOR MITOGENOMES IN CALLIFORMES	Cuervo, A. M.; Aleixo, A.; Bravo, G. A.; Brumfield, R. T.; Chesser, T.; Cracreft, J.; Moyle, R.; Silveira, L. F.; Harvey, M. G.; Derryberry, E. P.; PHYLOGRNOMICS OF THE PANTROPICAL RADIATION OF SUBOSCINE PASSERINES	Andersen, M. J.; Oliveros, C. H.; Benz, B. W.; Moyle, R. G.; HIGHER- LEVEL PHYLOGENY OF CROWS AND ALLIES INFERRED FROM ULTRACONSERVED ELEMENTS	Hosner, P. A.; Kimball, R. T.; Bram, E. L.; PHYLOGENY AND DIVERSIFICATION OF THE NEW WORLD QUAIL (ODONTOPHORIDAE)	Vaidya, G.; Lepage, D.; Lapp, H.; Guralnick, R. P.; MEASURINO THE OUTPUTS OF TAXONOMY: HOW MANY SPECIES OF NORTH AMERICAN BIRDS HAVE BEEN RECIRCUMSCRIBED IN THE LAST 128 YEARS?	Yun, T., Grzybowski, J. A., Siler, C. D., Schnell, C. D., Schnell, C. A. MALVSBI, OF RECENT HYBRIDIZATION BETWEEN WHITE-FACED AND GLOSSY IBISES
Longs Peak-Diamond West	C01B: Behavior 2-Group Living	D. Shizuka		Freeman, E. IMPACTS OF COOPERATIVE GROUP PERSONALITY ON THE REPRODUCTIVE SUCCESS OF THE ENDANGREED WHITE- BREASTED THRASHER	Leighton, G. M.; Echeveri, S.; Heinrich, D.; Kolberg, H.; Searcy, W. A.: RELATEDNESS PREDICTS MULTIPLE MEASURES OF MULTIPLE MESTMENT IN COOPERATIVE NEST CONSTRUCTION IN SOCIABLE WEAVERS	Zeng, L.; Rotenberry, J. T.; Zuk, M.; Pratt, T.; SOCIAL BEHAVIOR AND COOPPERATIVE BREIBING THE PRECOCIAL SPECIES. KALI PHEASANTS (LOPHURA LEUCOMELANOS) IN HAWAITI	Cusick, J. A.; Cox. J. A.; DuVal, E. H.: HOW DO HELPERS HELP? THE CUMULATIVE BENETITS OF HELPERS IN A PACULTATIVE COOPERATIVE BREEDING SPECIES, THE BROWN-HEADED NUTHATCH (SITTA PUSILLA)	Aguilon, S. M.; Duckworth, R. A.; RESOURCE-MEDIATED BEHAVIORAL DYNAMICS AMONG KIN DRIVE DISPERSAL IN FIRST-YEAR WESTERN BLUEBIRDS (SIALIA MEXICANA)	Rolland, V.; Fowler, J. A.: WINYTER ROOSTING BIOLOGY OF EASTERN BLUEBIRDS IN NE ARKANSAS	Shizuka, D.; Chaine, A. S.; Aderson, J.; Johnson, O.; Lauren, I. M.; Lyon, B.; WITHIN, AND ACROSS-YEAR SOCIAL COCHSION IN WINTERING MIGRANT SPARROWS REVEALED BY SOCIAL NETWORK ANALYSIS
Emerald Mountain-Bible Point	\$13: North American Breeding Bird Survey: Tackling New Challenges and Addressing Old Questions	K. Pardieck	Downes, C.; Hudson, M. R.; Smith, A. C.; Francis, C. M.: THE STATUS OF BIRDS IN CANADA WEBSITE: THE TRIALS AND TRIBULATIONS OF SYNTHESIZING MULTIPLE, DISPARATE DATA SOURCES	Smith, A. C.: GO NORTH YOUNG BIRDERTHE BBS FRONTIER HIGHLIGHTS THE NEED FOR A DISCUSSION ON WHAT WE WANT FROM PUBLISHED ESTIMATES OF STATUS AND TREND (AND THE NEED FOR MORE DATA)	Bled, E., Sauer, J. R.; Pardieck, K. L.; Doherty, P. F.; Royle, L. A.: MODELING TRENDS FROM NORTH AMERICAN BREEDING BRD SURVEY DATA. A SPATIALLY EXPLICIT APPROACH	Veech, J. A., Jersen, J.: ASSESSING LAND COVER COMPOSITION AND CONFIGURATION ALONG ROUTES OF THE NORTH AMERICAN BREEDING BIRD SURVEY	Handel, C. M.; Sauer, J. R.; Amundson, C. L.; Matsuoka, S. W. HIERARCHICAL ANALYSIS OF BREEDING BIRD SURVEY DATA FROM ROADISIDE AND REMOTE AREAS TO ESTIMATE POPULATION TRENUS IN ALASKA	Solymos, P., Bayne, E. M., Mahon, C. L., Hade, S., Fontaine, P., Cumming, S. G., Srableg, D., Schmiegleow, F., Song, S.: UNDERSTANDING THE SOURCES OF BLASES IN POPULATION SIZE ESTIMATES BASED ON ROADSIDE SURVEYS IN CANADA	Van Wilgenburg, S. L.; Obermayer, B., Joyce, T.; Weddle, B. EXPANDING BBS COVERAGE FOR BOREAL CANADA. ARE THERE DISTURBANCE RELATED BIASES IN ROAD NETWORKS NEEDING FURTHER CONSIDERATION?	Rodiguez-Contrens, V.; Relanga, H., Pardieck, K.; Rekansion, OFTHE BREDING BIRD SURVEY TO NORTHERN MEXICO: WORTH THE EFFORT
Longs Peak-Diamond East	S18: Use of the Fire-grazing Interaction in Avian Conservation	T. Hovick	Fullendorf, S. D., Engle, D. M.; Elmore, R. D.; Davis, C. A.; Hovick, T. L.; Alired, B. W.; Hamilon, R.; PYRUC HERBIVORY: INTERACTIVE DISTURBANCE PROCESSES THAT SHAPE GRASSLAND ECOSYSTEMST		Miller, J. R., Duchardt, C. J.; Hovick, T. J.; Lyons, T. P.; Pillsbury, F. C.; Debinski, D. M.; Engle, D. M.; AVIAN REPSONSE TO THE FIRE-GRAZING INTERACTION IN GRASSLANDS OF THE UPPER		Hovick, T. J.; Elmore, R. D.; Fuhlendorf, S. D.; Engle, D. M. Harniton, R. C.; SPATTAL HETBOGGENETY INCREASES DIVERSITY AND STABILITY IN GRASSLAND BIRD COMMUNITIES	Augustine, D. J.; Derner, J. D.; PATCH BURN GRAZING MANAGEMENT AND GRASSLAND BIRD HABITAT IN THE WESTERN GREAT PLAINS	Davis, C. A., Holcomb, E. D., Fublendorf, S. D., APPLYING FIRE- FRAZINGI, NITERACTIONS IN FIRE-DEPENDENT SAGEBRUSH ECOSYSTEMS. IMPLICATIONS FOR AVIAN COMMUNITIES	IGI. D.: DECISION SUPPORT PRESTORATION AND MANAGEMENT OF NATIVE PRAIRIES IN THE NORTHERN GERT PLAINS: IMPLICATIONS FOR GRASSLAND BIRD COMMUNITIES
Ruesch Auditorium	S11: Effects on Birds of Unconventional Shale Gas Extraction and the New Energy Boom	S. Latta	Thomas, E. H.; Stoleson, S. H.; Brittingham, M. C.; CONVENTIONAL OIL AND GAS DEVELOPMENT ALTERS COMMUNITY STRUCTURE AND PRODUCTIVITY OF FOREST PRISES IN PRESTIEND DECIDIOUS	PUKBAN.	Brittingham, M. C.; Barton, E. P.; Fronk, N. R.; Langlois, L. A.; Pabian, S. E.; BIRD COMMUNITY RESPONSE TO SHALE GAS DEVELOPMENT IN CORE FOREST		Wood, P. B.: LONG-TERM AVIAN RESPONSE TO FOREST FRAGMENTATION FROM SHALE GAS DEVELOPMENT		Prands, C. D.: BEYOND THE HABITAT EDGE: LARGE. SCAEL UNCONVENTIONAL GAS EXTRACTION IMPACTS ON BIRD COMMUNITIES VIA SENSORY POLLUTION	
Room		Mod	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15

Friday Afternoon Schedule

Longs Peak - Boulder Field								
Longs Peak-Granite Pass	S19: Value Added in Bird Monitoring: Capture and Banding Provide New Insights	C. J. Ralph	Humple, D. L.; Cormier, R. L.; Seavy, N. E.; Geupel, G. R.; Gardal, T.; BANDING DATA AS ARSOUNCE OF STUDYING LONG-TREM PATTERNS IN AVIAN PHENOLOGY	Toms, J. D.; Faaborg, J.; Avendt, W. J.; Cox, W. A.; BANDING ADDS VALUE TO LONG-TRRM MONITORING STUDIES IN PUEKTO RICO	Elizondo, P.; Ralph, C. J.; Wolfe, J. D.; USING BANDING DATA IN THE UNDESTANDING OF TROP MATURAL HISTORY OF TROPICAL, SPECIES, THE CASE OF COSTA RICA	Wolfe, J. D., Stouffer, P. C.: INSIGHTS FROM THE LONGEST OPERATING BIRD BANDING EFFORT IN THE AMAZON BASIN: THE BIOLOGICAL DYNAMICS OF FOREST FRAGMENTS PROJECT	van Riper III, C.; Puckett, S. L.; Darrah, A. J.; CAPTURE AND BADDING PROVIDEI INSIGHTS RECARDING THE IMPACT OF THE TAMARISK LEAF BEETLE (DIORHABDA CARINULATA) ON INSECTIVOROUS BIRDS	Alexander, J. D.: SUMMARY OF MANOSULM. THE WENT STEPS IN VALUE. ADDED METRICS FROM CAPTURE AND MARKING OF BIRDS
Longs Peak-Keyhole	C03C: Community Ecology: Interactions and Diversity	M. W. Eichholz	Cadieux, P. M., Dapeau, P. CHANGES IN THE FUNCTIONAL STRUCTURE OF NEST WEBS FROM MIXEDWOOD TO BLACK SPRUCE-MOSS DOMINATED LANDSCAPES: THE PERSISTENCE OF LARGE CAMTIES DUE TO THE NORTHERN FLICKER	Pinney, T. A.; Gutzwiller, K. J.; White, J. Dr. THE RELATIVE IMPORTANCE OF NICHE AND NEUTREL PROCESSES IN GULLD-LEVEL BIRD COMMUNITY ASSEMBLY	EICHDOIZ, M. W. MECHANISMS FOR LATITUDINAL VARIATION IN SPECIES RICHNESS: WATTERFOWL AS A CASE STUDY	Brady, M. L.: TEMPORAL VARIATION IN DIVERSITY AT THE EDGE OF THE TROPICS	Simott, E. A.; O'Comeil, T. J.: PATTERNS OF EASTERN SONGBRD DISTRIBUTION IN CENTRAL OKLAHOMAS CROSS TIMBERS PORESTS	Curtis, J. R., Robinson, W. D.: 60 Paras Ge AVINA COMMUNITY COMPOSITION CHARGE IN OREGON'S WILLAMETTE VALLEY
Longs Peak-Chasm Lake	C01C: Nesting Behavior	M. E. Hauber	Catterbuck, C. A., Young L. C., VanderWerf, E. A., Naiman, A., Bower, G., Shaffer, S. A.: DO PARENTS ROCK AND ROLL ALL NIGHT. TRANPORAL EGG- TURNING PATTERNS IN LONG- LIVED SEABIRDS	Yoon, J.; Jung, J.; Kim, B.; Joo, E.; Yoon, H.; Park, S.; PLASTICITY IN INCUBATION BEHAVIOR UNDER PROLONGED MAD PULSE RISKS OF NIEST PREDATION IN TWO CAVITY-NESTING PASSERINES	Chiavacci, S. J.; Ward, M. P.; Benson, T. J.; WHY DO NESTLINGS FLEDGE EARLY INTE DAY? EXAMINING THE ROLE OF PREDATTON RISK IN SHAPING FLEDGING BEHAVIOR.	Beckmann, C., Biro, P., Martin, K.: HIERARCHICAL ASSESSMENT OF AVIAN RE-NESTING BEHAVIOR UNDER RISK OF PREDATION: POPIL, ATION. LEVEL, ACROSS- AND INTRA- INDIVIDUAL RESPONSES	Ringelman, K. M.; Eadie, J. M.; Ackerman, J. T.; Sh. A.; Loughman, D.; Varris, G.; Olderburger, S. L.; M.: Landress, M. R.; SHIFTING PATTERNS OF INST DENITY AND PREDATION RISK. A. SYMTAL ANALYSIS OF 15 YEARS OF DUCK NESTING DATA FROM CALIFORNIA	Hauber, M. E.: MAFIA OR PRAMERY COGNOUTIONARY CONSEQUENCES OF RETALIATION AND FARMING AS PREDACTOR'S TRAFFGIES UPON HOSTN BESTS BY AVIAN BROOD PARASITES
Longs Peak-Diamond West	C13B: Song	E. Greig	Prevost, S. C.; Buehler, D. A.; Hockman, E. V.; Fischer, R. A.; Wilkerson, J. B.; Smich, D. R. USG OF AUTOMATED RECORDING DEVICES FOR MONITORINY. SONGRIRDS. CAN SONG RATES BE USED AS A MEASURE OF RELATIVE ABUNDANCE?	Latned, A. F.; Lohr, B.: SONG OF THE PUERTO RICAN GRASSHOPPER SPARROW (AMMODRAMUS SAI/ANVARUM BORINQUENSIS)	Hudson, E. J.; Shizuka, D.: DIALECT DISCRIMINATION IN NESTLING, BIT NOT ADULT, GOLDEN-CROWNED SPARROWS	Schrage, A.; Cicedo, C.; Bowie, R.; GEOGRAPHIC AND TEMPORAL VARIATION IN SONGS OF BAEOLOPHUS INORNATUS AND B. RIDGWAYI	Cicero, C., Benedict, L., King, C.; Karin, B.: CULTURAL EVOLUTION IN BELL: SAND SACERRUSH SPARKOWS (ARTEMISIOSPIZA BELLI ANDA NURADDENSIS): DOES SONG REFLECT PHYLOGENY AND ECOLOGY?	Greig, E. I.; Webster, M. S.; How Do NOVEL SIGNALS ORIGINATE? THE EVOLUTION OF FAIRY-WREN SONGS FROM PREDATOR TO DISPLAY CONTEXTS
Emerald Mountain-Bible Point	S13: North American Breeding Bird Survey: Tackling New Challenges and Addressing Old Questions	M-A. Hudson	Clement, M. J.; Nichols, J. D.; Pardieck, K. L.; AVIAN INDICATIORS OF CLIMATE CHANGE BASED ON THE NORTH AMERICAN BREEDING BIRD SURVEY	Wilson, S. Pilar, A. C., Reudink, M. W.; Laderu, S. L.; Totarup, A. P.; Marra, P. P.; COMBINING SEEDEN BEING STEPS CHAPT. DATA WITH REMOTE SENSING TO ASSEST THE EFFECTS OF BEEEDING AND WINTIRC CLIMATE ON THE RANGE-WIDE ABUNDANCE OF NEOTROPICAL MICRANTS.	Frei, B.: Fykes, J. W.; Cardille, J. A.; Nocera, J. J.: MISSING THE SMALL PICTURE: MAPPING GEOGRAPHIC-DEPENDENCY IN THE RILATIONSHIP BETWEEN A THREATENED WOODPECKER AND ITS COMPETITOR	Sauer, J. R.; Zimmerman, G. S.: USING BBS AND THE ATTANIC FIXWAY BREEDING WATERFOWL SURVEY TO ESTIMATE COMPOSITE TRENDS OF WOOD DUCK IN EASTERN NORTH AMERICA	MIller, D. A.; Smith, A. C.; Cadman, M.; Russell, R.; Weeber, R. C.: DIFFERRINT FOREST BRD POPULATION TRENDS FROM BBS AND FOREST INTERIOR MONITORING SITES	Link, W. A.; Sauer, J. R.; CRITICIZING THE BBS MODEL.
Longs Peak-Diamond East	S18: Use of the Fire-grazing Interaction in Avian Conservation	T. Hovick	Gregory, N. C.; Sensenig, R. L.; Wilcove, D. S.; SAVANNA HOME COMPANIONS: FIRE, PASTORALISM, DROUGHT, BIRDS, AND EVELOPMENT IN EAST AFRICA	McGranahan, D. A.; Kirkman, K. P.: RESEARCH ON RANCELAND BIRD RESPONSES TO DISTURBANCE IN SUB-SAHARAN AFRICA LACKS ATTENTION TO SPATIAL, TEMPORAL SCALE	Sandercock, B. K.; Winder, V. L.; Casey, A. E.; Morg, T. W.; Johnson, T. W.; Odom, K. L.; Strun, K. M.; Allaro, M.; BlazJING AND GRAZING FOR CONSERWATION HABITATUSE BY UPLAND SANDPIPERS IN AN EXPERIMENTAL LANDSCAPE	Winder, V. L., MoNew, L. B., Sandercock, B. K.: DADOGRAPHIC AND MOVEMENT RESPONSES OF GREATER PRAIRIE-CHICKENS TO PATCH-BURN GRAZING ON PRIVATE LANDS	Hamilton, R. G.: APPLICATION OF THE FIRE-GRAZING INTREACTION MODEL FOR BIODIVESSITY CONSENVATION IN THE TALLGRASS PRAIRIE OF OKLAHOMA, USAT	
Ruesch Auditorium	S11: Effects on Birds of Unconventional Shale Gas Extraction and the New Energy Boom	M. Brittingham	McClung, M. R., Block M. G.; McFadden, M. A.; EFFECTS OF CHRONIC M. NOISE FROM NUCONVENTIONAL GAS EXTRACTION ON BREDING BIRD COMMUNITIES AND COMMUNICATION IN THE FAYETTEVILLE SHALE, ARKANSAS	Latta, S. C.; Marshall, L.; Frantz, M.; Tonss, J.; WIDESPREAD EVIDENCE UNDICACTES BIOACCUMULIATION OF CONTRAMINANTS FROM HYDRAULIC FRACTURING IN A RIPARIAN-OBLIGATE SONGBIRD	Kleist, N. J.; Guralnick, R.; Cruz, A.; Francis, C. D.; THE COSTS OF NOISE POLLUTION STRESS, BEAVIOR AND FITNESS IN HIGH DESERT SECONDARY CAVITY NESTERS	Frantz, M. W.; Wood, P. B.; Sheehan, J.; George, G.; RESPONNE OF LOUISIANA WATERTHRUSH TO SHALE GAS DEVELOPMENT	Taylor, R. L.; Tack, J. D.; Naugle, D. E.; Mills, L. S.; COMBINED EFFECTS OF ENERGY DEVELOPMENT AND DISEASE ON GREATER SAGE-GROUSE	Thompson, S. J., Johnson, A., Kisemuh, D.; Rbic, C. A.; ASSESSING THE IMPACT OF OIL DEVELOPMENT ON GRASSLAND BIRDS
Room		Mod	16:00	16:15	16:30	16:45	17:00	17:15

Saturday Morning Schedule

Longs Peak – Boulder Field										
Longs Peak-Granite Pass L	C14: Physiology & Hormones	M.L. Grunst	Stager, M.; Pollock, H. S.; Benham, P. M.; Sly, N. D.; Brawn, J. J.; Cheviron, Z. A.; CLIMATIC INDICES UNDERLYING INDICES UNDERLYING AUTHORINAL PATTERNS IN AVIAN METABOLIC SCOPE	Pollock, H. S.; Chevion, Z. A.; Brawn, J. D.; TESTING JANZEN'S HYPOTHESIS, VARIATION IN AVIAN THERMAL TO LERANCES ACROSS LATITUDE	Boyce, A. J.; Martin, T. E.; Wolf, B. O.; DIVERGENT PHYSIOLOGICAL TOLERANCE IN TWO ALLOPATRIC SPECIES OF WHITE-EYE (ZOSTEROPIDAE) ON A TROPICAL ELEVATIONAL GRADIENT	Stanton, R. L.; Morrissey, C. A.; Clark, R. G.; INDIRECT EFFECTS OF AGRICULTURAL INTENSIFICATION ON COMPONENTS OF TREE SWALLOW (TACHYCINETA BICOLOR), STRESS PHYSIOLOGY	Gonzalez-Medina, E., Casillo-Guerron, J. A.; Santago-Quesada, F.; Vilegas, A.; Masero, J. A.; Sandra-Guznian, J. M.; Penindrad, C.: ENPERIMENTALIY MODIFIED DEIAMYNES ON PARENTS IN A LONG-LIVED SEABIRD. INTERGENERATIONAL CONSEQUENCES	Gilespie, I. M.; Jawor, J. M.; BEHANTOR, PHYSIOLOCY, AND ORNAMENTATION OF MALE BLUEBIRD NEST DEFENSE AGAINST CONSPECIFIC INTRUDERS IN A CHRONICALLY DISTURBED AREA	Preston, P. J.; Brigham, R. M.: THE INFLUENCE OF PREY WARLABILITY ON THE THERMORECULATORY BEHAVIOUR OF THE COMMON POORWILL (PHALAENOPTILUS NUTTALLI)	Grunst, M. L.; Grunst, A. S.; Parker, C.; Romeno, M.; Botenberry, J. T.; PIGMENT- SPECIFIC RELATIONSHERS BETWEEN EATHER CORFICOSTERIONELLEVELS AND SEXUAL COLORATION IN THE YELLOW WARBLER (SETOPHAGA PETECHIA)
Longs Peak-Keyhole	C07A: Phylogeography and Biogeography 1	M. J. Miller	Battey, C. J.; Slager, D. L.; Bryson, R. W.; Klicka, J.; PARAPHYLY AND I MIGRATION IN THE RED-EYED VIREO SUPERSPECIES	Klicka, L. B.; Burns, K. J.; Title, P. O.; Kus, B. E.: PHYLOGEOGRAPHY AND CONSERVATION GENETICS OF THE BELLS VIREO	Correll, M. D.; Olsen, B. J.; Hodgman, T. P.; Wiest, W. A.; Shiwer, W. G.; A REGIONAL ICHANGE COMPARISON OF BILGATE AND NON-OBLIGATE BIRDS IN TIDAL MARSHES OF THE NORTH ATLANTIC	Cabame, G. S., Trujilo-Arizs, N., Caramur, S., Weira Chaves, A., Mook, K., Caramur, S., Weira Chaves, A., Mook, K., A., Tubaro, P., HETRE/GENEUUS BIOCEOGRAPHIC HISTORY AND HIGH LEVELS OF CRYPITC BIRD DIVERSITY BETWEEN THE ATLANTIC AND TROPICAL ANDES PORESTS BAND TROPICAL ANDES PORESTS	Oswald, J. A.: FOSSILS, MOLECULES, AND ECOLOGY: THE HISTORICAL MECHANISMS IS SHAPING BIRD COMMUNITIES IN NW PERU	Sweet, A. D.; Johnson, K. P.; PATTERNS OF DIVERSIFICATION IN SMALL NEW WORLD GROUND DOVES NEW WORLD GEOLOGIC NEW WORLD GEOLOGIC EVENTS	Salter, J. F.; Maley, J. M.; McCornack, J. E.; SEQUENCING DNA FROM MUSEUM SPECIMENS ELUCIDATES DISPUTED LOCALITIES IN THE FULVOUS OWL (STRIX FULVESCENS)	Haris, R. B.: SPECIATION IN EURSIAN WACTALLS (AVES. IN MOTACILLA); INFERING SPHYLOGENY, DELIMITING SPECIES, AND ESTIMATING GENE FLOW USING SNPS
Longs Peak-Chasm Lake	C05E: Conservation 1	J. A. Cox	Callicrate, T. E.; Conaut, S.; Siewerdt, F.; Fleischer, R.: POPULATION DECLINES AND GENETIC VARIATION: EFFECTS OF SERIAL BOTTLENECKS IN THE LAYSAN FINCH	Woltmann, S., Stouffer, P. C., Woodrey, M. S., Bergeon Burns, C. M.; Taylor, S. S. POULATTON GENETICS OF THE GULF COAST SUBPECIES OF THE SEASIDE SYSTEM AND COAST SUBPECIES VALIDITY AND CONSERVATION IMPLICATIONS	Cerame, B., Cox. J. A.; Brumfield, R. T., Truder, J. W., Tagbog, S.; LITTLE GENETIC STRUCTURE IN BACHANINS SPARROW (PEUCARA AESTIVALIS) BESTITE MATTIALL BARRIERS AND HABITAT FRAGMATATION ANAFATIVON TO BEHEMBEAL HABITAT IN A FIRE DEPENDENT SPECIES?	Prince, K., Chipault, J., White, L., Zuckerberg, B.: USING CITIZEN SCIENCE TO EXPLORE SPATIOTEMPORAL PATTERNS OF AVIAN BOTULISM MORTALITY EVENTS IN LAKE MICHIGAN		Weiser, E. L.; Grueber, C. E.; Kemedy, E. S.; Jamieson, I. G.: UNEXPECTED POSITIVE BFFECTS OF INDREDDING IN THE HIGHLY INBRED CHATHAM ISLAND BLACK ROBIN	Peiffer, J.; Benfori, R.; CAUSES OF MORTALITY OF GODLEN WHITE-EYES ON SAIPAN	Gutzwiller, R. J.; Rifell, S. K.; Flather, C. H.; THE PREVALENCE OF RELATIVES SIMPLE BROAD- SCALE LIMITING PACTORS ON AVIAN PERSISTENCE BELIES THE COMPLEXITY OF ASSEMBLAGE- LEVEL CONSERVATION
Longs Peak-Diamond West	C11A: Habitat Relationships	R. J. Fletcher	Fletcher, R. L.; Robertson, E. P.; Kitchens, W. M.: THERE'S NO PLACE LIKE HOWE: NATAL HABITAT EFFECTS ON DISPERSAL, NEST-SITE SELECTION, AND POPULATION STRUCTURE IN AN ENDANGERED BIRD	Specht, H. M.; Arnold, T. W.; Trosen, C.; ADAPTING ROADSIDE SURVEY METHODS TO ENHANCE GREAT LAKES WATERFOWL MANAGEMENT	Devies, J. H.; Clark, R. G. ADAPTIVE NEST STTE SELECTION IN BIRDS; EFFECTS OF LANDSCAPE COMPOSITION AND BREEDING DENSITY	Sesnie, S. E.; Mueller, J. M.; Lehnen, S. E.; Rowin, S. M.: CHARACTERZING GOLDEN CHERED WARBLER HABITAT USING JIDAR AND NAIP-CIR	Wood, E. M.; Barker, S. E.; Hochachka, W. M.; Rohrbaugh, R. W.; Roesnberg, K. Y.; Rodewald, A. D.: MEET YOU IN THE MIDDLE: HYBRID HABITAT PREFERENCES AND GENETIC INTROGRESSION IN GOLDEN-WINGED WARBLER	Farquhar, M. L.; Nocera, J. J.; Morin, A. M.; HABITAT USE WITHIN AND AMONG ROOSTS OF CHIMNEY SWIFTS	Rice, M. B.; Rossi, L.; Aba, D.; REFINING SEASONAL RESOURCE SELECTION MODELS FOR THE MANAGEMENT OF GREATER SAGE-GROUSE IN NORTH PARK, COLORADO	Wagner, M. A.; Reynolds, J. D.: MPACTS OF SALMON ON SONGBIRD COMMUNITIES
Emerald Mountain-Bible Point	C08B: Habitat Fragmentation and Human Impacts	M. S. Pruett	Evans, B. S., Ryder, T. B., Reisma, R.; Hurlbert, A. H., Marra, P. P.: ANNUAL, SURVIVAL OF LAND BIRDS ALDNG A RURAL-TO-URBANLAND USE GRADIENT USING CITIZEN AND SCIENTIST GENERATED DATA	Malpass, J. S.; Rodewald, A. D.: NEST SIRVIYAL, OF URBAN- ADAPTED SONGBIRDS IN RESIDENTIAL YARDS AND ADJACENT FOREST PARKS	Pruett, M. S.; Bowman, R.; Fizparick, J. W.; Dent, M.; POPULATION/SPECIFIC PATTERNS OF PARTIAL BROOD LOSS HIGHLICHT DIFFERENCES IN ENVIRONMENTAL CONSTRAINTS ON PRODUCTIVITY	Brautigam, K. J.; Osborne, D. C.; White, D.; Honey, J. P.: EFFECTS OF SUPPLEMENTAL WILDLIFE FEEDERS ON SURVIVAL OF ARTIFICIAL GROUND NESTS IN SOUTHEAST ARKANSAS	Peak, R. G.; Thompson III, F. R.: SEASONAL PRODUCTIVITY AND MEST SURVIVAL OF GOLDEN-CHEKED WARBLERS VARY WITH FOREST TYPE AND EDGE DENSITY	Walker, L. E., Marzluff, J. M.: SMALL PATCHES OF LOWER QUALITY HABITAT CONTRIBUTE TO THE POPULATION OF AN ENDANCERED SONGBIRD, THE BLACK-CAPPED VIREO (VIREO ATRICAPILLA)	Jenkins, J. M.: Thompson, F. R.; Faaborg, J. R.: POSTFLEDGING DISPERSAL AREA LANDCOVER AND SURVIVAL OF ACADIAN FLYCATCHERS AND OVENBIRDS IN A MISSOURI FOREST FRAGMENT	Etterson, M. A.; Grenberg, R.; Hollenforst, T.: LANDSCAPE AND REGIONAL CONTEXT DIFFERENTALIY AFFECT NEST PARASITISM AND NEST PREDATION FOR WOOD THRUSH IN CENTRAL VIRGINIA, USA
Longs Peak-Diamond East	S21: Western Yellow-billed Cuckoo: Current Research and Management Needs	J. Stanek	Lloyd, J. D.; Mallin, R. D.; NATURAL HISTORY OF MANGROVE CUCKOOS IN SOUTH FLORIDA	Detting, M. D.; Seavy, N. E.; Gardaii, T.: CURRENT STATUS OWESTERN YELLOW- BILLED CUCKOO ALONG THE SACRAMENTO AND FEATHER RIVERS, CALIFORNIA	Carstensen, D. L.; Ahlers, D. D.; Moore, S. D.; SIRVEY D. D.; Moore, S. D.; SIRVEY RESULTS AND BREDING PAIR DELINEATION THE YELLOW-BILLED CUCKGO ON THE MIDDLE RIO GRANDE, NEW MEXICO	Sechrist, J. D.; Ahlers, D. D.; Paxton, E. H.; Doster, R. H.; Ryan, V. M.; HOME RANGE AND VIGATION STUDIES OF THE YELLOW-BILLED CUCKOO IN NEW MEXICO	Stanek, J. R.; McNeil, S. E.; Tracy, D. D.: FACTORS AFFECTING DETECTION OF YELLOW-BILLED CUCKOOS DURING STANDARDIZED SURVEYS	McNeil, S. E.; Culver, M.: POPULATION GENETIC DIVERSITY AND STRUCTURING OF YELLOW-BILLED CUCKOOS		
Ruesch Auditorium	S04: Genomic Approaches to Understanding Avian Speciation	L. Campagna	Taylor, S. A.: INTRODUCTION TO SYMPOSIUM S04	Campagna, L.: INTRODUCTION TO VARIOUS GENOMIC METHODS	Safran, R. J.; Wilkins, M. R.; Albrecht, T.; Chan, S.; Brens, M. R.; Flaxman, S. M.; Kanardic, H.; Leten, A.; Nosil, P.; Buerkle, C. A.; ISOLATION BY DISTANCE OR ADAPTATION THE ROLE OF SEXUAL SELECTION IN GENOME WIDE DIVERGENCE	McCormack, J. E., Fairtloth, B. C.: WHOLE-GENOME APPROACH TO SPECIATION IN SCRUB-JAYS	Harvey, M. G.; Seeholzer, G. F.; Judy, C. D.; Maley, J. M.; Brumfield, R. T.; COMPARATIVE PHYLOGEOGRAPHY USING GENOMIC DATASETS	Deane-Coe, P. E., Bogdanowicz, S.; Lovette, I. J.; Harrison, R. G.: GENOMIC SIGNATURES OF RAPID ADAPTIVE DIVERGENCE IN THE SWAMP SPARROW	Tigano, A.; Shultz, A. J.; Edwards, S. V.; Friesen, V. L.; TESTS OF LOCAL ADAPTATION ALONG A LATITUDINAL CLINE. A STUDY OF AN ARCTIC SEABIRD	Winger, B.; Bates, J.: A TIME THRESHOLD FOR PLUMAGE DIVERGENCE IN ALLOPATRIC ANDEAN BIRDS
Room		Mod	10:00	10:15	10:30	10:45	11:00	11:15	11.30	11:45

AOU/COS/SCO 2014 JOINT MEETING 23-28 SEPTEMBER 2014

Satunday Mid-day Schedule

Room	Ruesch Auditorium	Longs Peak-Diamond East	Emerald Mountain-Bible Point	Longs Peak-Diamond West	Longs Peak-Chasm Lake	Longs Peak-Keyhole	Longs Peak-Granite Pass	Longs Peak – Boulder Field
	S04: Genomic Approaches to Understanding Avian Speciation	S15: Recent Advances in Rusty Blackbird Research: A Symposium Honoring the Memory of Russell S. Greenberg	S08: A Century Later: Lessons from the Extinction of the Passenger Pigeon (Ectopistes migratorius)	C05C: Grassland Management and Conservation	C05F: Conservation 2	C11C: Habitat Relationships: Forests	C03A: Landscape Ecology and Fragmentation	
Mod	L. Campagna	C. Foss	D. Blockstein	C. B. Wilsey	S. Taylor	J.A. Tomasevic	R. Rueda-Hernández	
13:30	Mason, N. A.; Taylor, S. A.; DIFFERENTIALLY EXPRESSED CENES UNITE PHENOTYPES AMIDST UNDIFFERENTIATED ANONYMOUS LOCI IN THE PHENOTYPICALLY DIVERSE REDPOLL FINCHES (ACANTHIS)	Powell, L. L.: AN INTRODUCTION TO THE RUSTY BLACK BRD SYMPOSIUM: BUILDING ON THE FOUNDATION BUILT BY RUSS GREENBERG	Blockstein, D. E.: OVERVIEW: THE ECOLOGY AND EXTINCTION OF THE PASSENGER PIGEON (ECTOPISTES MIGRATORIUS)*	Verheijen, B. H.; Sanderook, B. R.; EFFECTS OF PATCH-BURN GRAZING MANGEMENT OF NETS SURVIVAL AND BROOD PARASITISM RATES OF DECLINING SPECIES OF GRASSILAND SONGBIRDS	Pejchar, L., Culiney, S., Kaushik, M., Campton, L., SEED 9 DISPERSAL AND THE DECLINE OF HAWAITS FRUIT-EATING BIRDS	Tomasevic, J. A.; Marzluff, J. M.: SUCCESSFUL EXPLOTRATION OF SUBURBAN LANDSCAPES BY THE PILEATED WOODPECKER	Rueda-Hernández, R.; MacGegor-Fors, I.; Renton, K.: SHIFTS IN RESIDENT BIRD COMMUNITIES ASSOCIATED WITH CLOUD FOREST PATCH SIZE IN CENTRAL VERACRUZ, MEXICO	
13:45	Stryjewski, K. F., Sorenson, M. D.: ISLANDS OF DIVERGENCE IN AN EXTRAORDINARY ADADATION OF FINCHES (LONCHURA SPP.) FROM PAPUA NEW GUINEA	Westwood, A. R.; Staicer, C.: HABITAT ASSOCIATIONS OF THE RUSTY BLACKBIRD IN NOVA SCOTTA, AND OPPORTUNITIES FOR CONSERVATION WITHIN A MULTI-SPECIES SUITE		Levandoski, G. J.; Panjabi, A. O.; Gallagher, S.; Quattini, L.; VerCauteren, T.; YES, IN POUR BACKYARD: A MODEL FOR INCREASED PRIVATE GRASSLANDS CONSERVATION	Mack, A. L.: CONSERVATION AND ECOLOGY OF SEED LOSTERSAL BY THE DWARF CASSOWARY CASUJARUS BENNETTI. A SYNTHESIS OF 25 YEARS OF RESEARCH AND CONSERVATION	Ruiz-Sanchez, A.; Rueda- Hernandez, R.; Renton, K.: BIRDS AND DISTURBANCE: EFFECT OF HABITAT MODIFICATION ON WILSON'S WARBLER DENSITY, TERRITORY SIZE AND BODY		
14:00	Baldassarre, D. T.; White, T. A.; Karubian, J.; Webster, M. S. A. Carowild AND MORPHOLOGICAL GALVSIS OF A SEMI-PERMEABLE AVIAN FYRBU ZONE SUCGESTS ASYMMETRICAL INTROGRESSION OF A SEXUAL SIGNAL	Luepold, S. B.; Hodgman, T. P.; McNulty, S. A.; Cohen, J.; Foss, C. R.; A MULTI-SCALE ANALYSIS OF RUSTY BLACKEND NEST SURVIYAL AND NEST PREDATORS IN NEW ENGLAND	Shapiro, B.; Green, R. E.; Rodrigues Scares, A. E.; Novak, B.; THE GENOMICS OF EXTINGTION: USING ANCIENT DNA TO UNDERSTAND THE RISE AND FALL OF THE PASSENGER PIGEON ^T	Panjabi, A. O.; Macias-Duarte, A.; Levandoski, G. I.; Ruvakaba-Ortega, I.; Conzalez-Rojas, J.I.; Pod, D. B.; WHERE DO GRASSLAND BINDS OVERWINTHER DENSITY AND ABUNDANCE OF GRASSLAND BIRDS IN THE CHIHUAHUAN DESERT	Raynor, E. J., Cable, T. T., Sanderoock, B. K.: EFFECTS IO FTAMARIX REMOVAL ON COMMUNITY DYNAMICS OF RIPARIAN BIRDS	Schaming, T. D.: CLARKS NUTCRACKER DEMOGRAPHY AND HABITAT SELECTION IN THE FACE OF HABITAT DECLINE	Knight, E.C.; Mahony, N. A.; Green, D. J.; LOCAL AND LANDSCAPE EFFECTS ON THE BIRD COMMUNITY IN SAGEBRUSH SHRUBSTEPPE	
14:15	Scordato, E., Wilkins, M.; Semenov, G.; Rubtsov, A.; Kane, N.; Parchman, T.; Buerkle, A.; Safran, R.; PHENOTYPIC AND GENOMIC CLINES IN TWO BARN SWALLOW CONTACT ZONES	Wohner, P. N.; Foss, C. R.; Greenberg, R.; Cooper, R.: RUSTY BLACKBRD SURVIVORSHP AND HABITAT SELECTION DURING THE POSTFLEDGING PERIOD		Shew, J. J.; Spating, D. W.; Nielsen, C. K.; GRASSLAND BIRD MANACEMENT AND MULTI- SCALE FACTORS ON PRIVATE CONSERVATION RESERVE PROGRAM LANDS	McLeod, M. A.; Pellegrini, A. R. EFFECTS OF TAMARISK OBFOLLATION ON SOUTHWESTERN WILLOW IFLYCATCHERS ALONG THE VIRGIN RIVER	Grinde, A. R., Niemi, G. J.: OCCUPANCY DYNAMICS OF CANADA WARBLERS IN MINNESOTAS NATIONAL FORESTS	Joos, C. J.; Kendrick, S. W.; Poneluzi, P. A.; Thompson, F. R.; Rabong, J. M.; TERRITORY DENSITY RESPONDS TO STAND LEVEL, FORBEST STRUCTURE: EVIDENCE FROM A LONG TERM EXPERIMENT	
14:30	Balakrishnan, C. N.; Bergland, A. O.; Gonser, R. A.; Warren, W. C.; Tutle, E. M.; THE GENOMICS ONOSPECIATION IN THE BEHAVIORALLY POLYMORPHIC WHITE-THROATED SPARROW	Matsuoka, S. M.; Tessler, D. F.; Shaw, D.; Harding-Scurr, A.; Loomis, D.; Cooper, E.; Hajduovech, N.; DENTIFYING DEMOGRAPHIC DEFICITS AMONG RUSTY BIA-CKBIRO BREEDING IN ALASKA; CLUES TO UNDERSTANDING POPULATION DECLINE?	Temple, S. A.; Zuckerberg, S. Santon, J. C. REVISITING HISTORICAL PASSENGER PROBLED MATCH PRESENGENCY SOME INTERPRETATIONS AND QUESTIONING OTHERS?	Wileey, C. B.; Pollock, J.; Schwerz, J. G.: CONSERVING GRASSLAND BIRDS IN THE CHICAGO BIRDS IN THE CHICAGO CONTIDENNESS USING CITIZEN SCIENCE AND REMOTE. SENSING	Pruett, H. L.; Mathewson, H. A.; Morrison, M. L.; Davis, R. P.; Nowann, C.; STUDY OF THE POTENTIAL IMPACTS OF HIGHWAY F CONSTRUCTION ON SELECTED BIRDS WITH EMPHASIS ON THE GOLIDEN-CHEEKED WARBLER	KOOS, E. T., SIMONS, T. R.: NIDBESTANDING LONG-TERM TRENDS IN BIRD OCCURRENCE O'LLOWING AN INCREASE IN THE PREVALENCE OF FIRE ON A SOUTHERN APPALACHIAN ANDSCAPE	Stanton, R. A.; Thompson III, F. R.; Kesler, D. C.; UNDERSTRANDING LANDSCAPE FOREST COVER AND BIRD OCCUPANOR IN MANAGED SAYANNAS AND WOODLANDS	
14:45	Taylor, S. A.; Curry, R. L.; White, T. A.; Ferretti, V.; Lovette, I. J.; CONSISTENT GENOMIC SIGNATURES OF REPRODUCTIVEL SOLATION IN A MOVING AVIAN HYBRID ZONE	Scar, J. C., Foss, C., Demarest, D., Heyden, K., Sinclair, P., MOBLIZING TWO COUNTRIES FOR CONSERVATION: RUSTY BLACKBRD SPRING MIGRATION BLITZ		MacDonald, N. M., No, E.: THE EFFECTS OF ROTATIONAL GRAZING AND HAY MANGEMENT ON THE REPRODUCTIVE SUCCESS OF BOBOLITIK AND EASTERN MEADOWLARK IN EASTERN MEADOWLARK IN EASTERN	Apa, A. D., Wiedman, I. A., Philips, M. L. GHNINSON ASGLEGROISE CONSENATION SUCCESSFUL DEVELOPMENT OF CAPTIVE-REARING TECHNIQUES TOR THE COLLECTION, STORAGE AND HATCH OF WILLD AND CAPTIVE-SOURCE EGGS	Dunham, S. W.; Harrison, D. J.; HABITAT SELECTION OF FEMALE SPRUCE GROUSE I DURING BROOD REARING IN COMMERCIALLY MANAGED FORESTS	Wolfe, J. D.; Mokross, K.; Stouffer, P. C.; INFLUENCE OF SECOND GROWTH AND POREST FRAGMENTATION ON THE COMPOSITION, DEMOGRAPHY AND FLOCK DYNAMICS OF AMAZONIAN BIRDS	
15:00	Alcaide, M.; Scordato, E. S.; Price, T. D.; Irwin, D. E.: GENOMICS IN A RING: SPECIATION IN GREENISH WARBLERS	Evans, B. S.; Powell, L. L.; ASSESSING THE DISTRIBUTION OF WINTERING RUSTY BLACKBIRD POPULATIONS USING CITIZEN SCIENTIST GENERATED DATA	Meine, C.: THE IMPACT OF THE PASSENCER POGEON'S EXTINCTION ON CONSERVATION SCIENCE AND POLICYT	Plumb, R. T.; Lattenbach, J.; Robinson, S. G.; Kraft, J.; Sullins, J.; Barkes, D. A.; Pitman, J. C.; Dahlgren, D.; BREEDING SEASON HABTIAT PATCH USE PF FEMALE LESSER PRAIRIE-CHICKENS IN KANSAS AND COLORADO	Cox, J. A.; McCormick, J. R.; REINTRODUCTION OF THE RED-COCKADED WOODPECKER TO A SITE IN NORTH FLORIDA	Eyes, S. A.; Roberts, S. L.; Johnson, M. D.: THE EFFECTS OF FIRE SEVERITY ON CALIFORNIA SPOTTED OWL HABITATI USE PAITTERNS	English, P. A.; Nocera, J. J.; Green, D. J.: HOMELESS AND HUNGRY: PACTORS INFLUENCING DISTRIBUTION BASING SATE OF A NOCTURNAL ABINDANCE OF A NOCTURNAL AERIAL INSECTIVORE	
15:15	Judy, C. D.; Graves, G. R.; Brumfeid, R. T.; SPECIATION AND HYBRIDIZATION IN JAMAICAN-ENDEMIC STREAMERTALL HUMMINGBIRDS	Borchert, S. M.; Stouffer, P. C.; STIE-SPECIFIC HABITAT AND LANDSCAPE ASSOCIATIONS OF RUSTY BLACKBIRDS WINTERING IN LOUISIANA		Youngberg, R. N.; Panjabi, A. O.: DENSITY AND TRENDS OF REASSLAND BIRDS ON CITY OF FORT COLLINS PROPERTIES IN THE MOUNTAINS TO PLAINS AREA OF NORTHERN COLLORADO	Spellmeyer, A. J.; Rogers, C. J. M.: REVERSING SONBIRD DECLINE: OVERWINTER FOOD SUPPLEMENTATION INCREASES SURVIVAL OF THE DARK-EYED DIUNCO	Johnson, K.; Wickersham, L.; Smith, I.; Sadodi, G.; Neville, T.; Wickersham, J.; NEST- SCALE HABITAT USE BY PINYON-JUNIPER BIRDS ON DEPARTMENT OF DEFENSE LANDS	Lockhart, J.; Koper, N.: RELATIVE EFFECTS OF HABITAT LOSS AND FRAGMENTATION ON GRASSLAND SONGBIRD COMMUNITIES	

Saturday Afternoon Schedule

Longs Peak – Boulder Field								
Longs Peak -								
Longs Peak-Granite Pass	C06F: Migration, Within-Season Movement/Dispersal	M. S. Martell	Ware, H. E., McClure, C. J.; Carlisle, J. D.; Barber, J. R.: ROAD NOISE REDUCES FORAGING AND STOPOVER EFFICENCY OF MIGRATING SONGBIRDS	Martell, M. S., Katzner, T., Miller, T., Hall, K.; Mehus, S.; Somershoe, S.; Soeiren, E.; COLDEN PAGLE MIGRATION AND WINTERING IN THE GREAT LAKES REGION	Robinson, S. G.; Plumb, R. T.; Lautenbach, J. M.; Kraft, J. D.; Sulins, D. S.; Haukos, D. A.; Piman, J. C.; NONBREEDING SEASON OMOVEMENT AND HABITATUSE OF LESSER PRAIRIE-CHICKENS IN KANSAS	Jones, C. D.; Shodala, K. W.; Coombs, J.; Cooper, R. J.; Ward, M. P.; EFFECTS OF FRAGMENTATION ON MOVEMBRINS OF BACHMAN SSPARROWS (FEUCAEA ABSTIVALIS) AND PRAIRE WARBLESS (SETOPHAGA DISCOLOR); OVER THE FIELD OR THROUGH THE WOODS?	Williams, E. J.; Boyle, W. A.: GRASSHOPPER SPARROWS ON THE MOVE. WHAT EXPLAINS VARLATION IN WITHIN-SEASON BREEDING DISPERSAL IN A DECLINING SONGBIRD?	Strasser, E. H.; Paripbi, A. O.; Macdes-Duare, A.; INFLUENCE AND CORROGUENCES OF HABITAT CHARACTERISTICS ON SPACE USE STRATEGIES AND BODY CONDITION IN WINTERING BAIRD'S AND GRASSHOPPER SPARROWS
Longs Peak-Keyhole	C07B: Phylogeography and Biogeography 2	J. A. Oswald	Manthey, J. D.: Moyle, R. G.: ISOLATION BY ADAPTATION: LANDSCAPE GENOMICS OF WHITE-BREASTED NUTHATCHES (SITTA CAROLINENSIS) IN THE SKY ISLANDS OF ARIZONA	Luthell, S. A.; Reicher, R.; Oeenberg, R.; Loh, B.; MCROSATELL/TE ANALYSIS OF MACSIN WERNS/ICSTOTHORUS PAULS/TRO) REVEALS SURPRING LACK OF CREMETIC DIVISION AMONG ECOLOGICALLY AND GEOGRAPHICALLY VARIABLE POPULATIONS	Tessler, D. E., Johnson, J. A.; Marsoka, S. A.; Greenberg, R. S.; Foss, A. R.; Hobson, K. A.; Werther, P. J.; DiCtoo, I. H.; WUSSTICKING MIGRATION PARTTENS OF THERUSTY BLACKERD USING LIGHT-LEVEL GEOLOCATORS AND STABLE ISOTOPES	Benham, P. M.; Cheviron, Z. A.: HISTORICAL AND ECOLOGICAL CORRELATES OF POPULATION STRUCTURE IN THE SAVANNAH SPARROW [PASSERCULUS SANDWICHENSIS]		Miller, M. J.; Buinago R., D. E.; Grazón V., J. L.; Agular, C. E.; COMBINING MORPHOLOCY AND ULTRACONSENED ELEMENTS (UCES) TO ESTABLISH SPECCES LIMITS IN PANAMANIAN OCHRE BELLIED FIXCATCHERS (MODRECTES OLEAGINELS)
Longs Peak-Chasm Lake	C05G: Conservation 3	D.C. Pavlacky	Pavlacky, D. C., Hami, D. J., Galagher, S.:INTECRATING MONITORING DATA AND ECOLOGICAL THE BESCRIPTIONS TO ACHERYE MULTI-SPECIES BIRD CONSERVATION IN WORKING LANDSCAPES	Bartuszevige, A. M.; Vazquez, M.; Carter, M.: INTEGRATING HUMAN DIMBENSIONS INTO BIOLOGICAL PLANNING FOR BIRD CONSERVATION IN THE WESTERN GREAT PLAINS	Ramsdell, C. P.; Dwyer, A. M.; Snyder, L. H.; Sorice, M. G.; WHAT MOTIVATES PRIVATE LANDOWNERS. TO PARTICIPATE IN A CONSERVATION PROGRAM TO PROTECT MOUNTAIN PLOVER NESTS?	Far, C. M.; Pejchar, L.; Reed, S. E.; EFFECTS OF CONSERVATION DEVELOPMENT DESIGN AND STEWARDSHIP ON BIRD COMMUNITIES IN NORTHERN COLORADO	LOSS, S. R.; Will, T.; Marra, P. P.; ANTTROPOGENIC BRD MORTALLIY IN THE UNITED. STATES: COMPARISON OF DATA- DRIVEN ESTIMATIES POR MULTIPLE THREATS AND IDENTIFICATION OF OVER-ARCHING RESEARCH NEEDS.	Marzluff, J. M.; Delap, J. H.; Oleyar, M. D.; SITE FIDELITY II A CHANGING WORLD. DISPERSAL OF BREEDING ADULT SONGBIRDS DRIVEN BY SUBURBAN DEVELOPMENT
Longs Peak-Diamond West	C05A: Conservation: Population Trends	L. Hargrove	Smith, P. A., Pollock, L., Bart, J.: CORRELATES OF GLOBAL SHOREBIRD POPULATION DECLINE AND IMPLICATIONS FOR ARCTIC BREEDERS	Hille, D. C.; Wiedenfeld, D. A.; Lezama-Lopez, M.; Brightsmith, D.; Patten, M. A.; OCCUPANCY TRENDS OF THE AVIAN FAMILY PSITTACIDAE IN NICARAGUA OVER A 20-YEAR MONITORING PERIOD	Nocara, J. L. Reudink, M. W.; Carpomizzi, A. J. POPULATION TRENDS OF ARMAL INRECITYORES REEDING INNORTH AMERICA CAN BE LINKED TO TRADE INNECITIOES ON WINTERING GROUNDS IN CENTRAL AND SOUTH AMERICA	Buechley, E. R.: ECOLOGICAL AND ANTHROPOGENIC FACTORS CAUSING AVIAN SCAVENGER DECLINES	Hagrow, L.; Unit, P.: POOR REPRODUCTIVE SUCCESS OF THE GRAY VIREO (VIREO VICINIOR) IN CALIFORNIA WHERE POPULATIONS ARE DECLINING	Liao, C.; Lin, R.; Tsai, J.; DEVELOPING SURVEY AND MONITORING STRATEGY USING OCCUPANCY MODELING FOR AN ENDANGERED BIRD SPECIES IN TAIWAN
Emerald Mountain-Bible Point	S08: A Century Later: Lessons from the Extinction of the Passenger Pigeon (Ectopistes migratorius)	D. Blockstein	Wegner, S.: STARS, PIES AND CASH: THE PASSENGER PIGEON IN NORTH AMERICAN ART AND CULTURE, 1500-2014 ^T		Sulivan, S. M., Greenberg, J.: PROJECT PASSENGER PGEON: RESOURCES FOR INSTITUTIONS AND INDIVIDIALS THAT PROMOTE LEARNING FROM THE PAST FOR A SUSTAINABLE FUTURE'			
Longs Peak-Diamond East	SOG: The Effects of Environmental Contaminants on Birds, and the Utility of Birds as Biomonitors of Pollution	A. B. Alquati	Kearns, B. V.; McDowell, S.; Moon, J.; Rgby, E.; Conway, W.; Haukos, D. A.; LEAD EXPOSUBE IN WATERPOWL. SOURCES, PATHWAYS, AND SOLUTIONS	Jackson, A. K.; Eagles-Smith, C. A.; AQUATIC NUTRIENT AND MERCURY CONTAMINANT SUBSIDIES TO WILLAMETTE VALLEY RIPARIAN SONGBIRDS		Henkel, J. R., Sigel, B. J.; Taylor, C. M.: OILING RATES AND CONDITION INDICES OF SHOREBIRD COMMUNITIES IN THE NORTHEN GULF OF MEXICO FOLLOWING THE DEEPWATTER HORIZON OIL SPILL.	Bergeon Burns, C. M.; Woldmann, S.; Stouffer, P. C.; Taylor, S. S.; PHYSIOLOGICAL AND ECOLOGICAL EFFECTS OF THE DEEPWATER HORIZON OIL SPILL ON SEASIDE SPARROWS	Bonisoli-Alquati, A., Møller, A. P., Jerkinson, S., Milinevsky, G.; Wonsseau, T. A.: ECOLOGICAL CORRELATES OF SPECIES SENSITIVITY TO IONIZING RADIATION IN CHERNOBYL
Ruesch Auditorium	S04: Genomic Approaches to Understanding Avian Speciation	L. Campagna	Campagna, L., Silveira, L., F.; Lovette, I. J.; DIVERGENT PHANOTYPES DESPITE (MOSTLY), HOM OGENEOUS GENOMES, INSIGHTS FROM A RECENT NEOTROPICAL AVIAN RADIATION	Uy, J.A., Cooper, E. A.: THE GENOMICS OF SPECIATION- WITH-GENEFLOW IN FLYCATCHERS OF THE SOLOMON ISLANDS	Hooper, D. M.; Price, T. D.; GENOMIC REARRANGEMENT IN BETRILLIDID FINCHES, GENE FLOW AND POPULATION SIZE PREDICT EXTIENT OF KARYOTYPE DIVERGENCE	Toews, D. P.; Breisford, A.; Grossen, C.; Mila, B.; Irwin, D. E.: GENOMIC VARIATION IN YELLOW-RUMPED WARBLERS	McCracken, K. G.; Natarajan, C.; Moniyama, H.; Weber, R. E.; Fago, A.; Projecto-Garcia, J.; Storz, J. E. Para LLEL DAPATATION IN THE MAJOR HEMOGLOBIN GENES OF ANDEAN DUCKS	Oliveros, C. H.; Andersen, M. I.; Moyle, R. G.; DISENTANGLING PHYLOGENETIC RELATIONSHIPS IN AN EXPLOSIVE BIRD RADIATION USING ULTRACONSERVED ELEMENTS
Room		Mod	16:00	16:15	16:30	16.45	17:00	17:15

Wednesday Posters

C01P Behavior

- Yoon, H.; Yoon, J.; Joo, E.; Park, S.: PARENT RECOGNITION IN CHICKS OF THE GROUND-NESTING, NIDIFUGOUS SAUNDERS'S GULL SAUNDERSILARUS SAUNDERSI
- 3 Johnson, J. M.; Maness, T. J.: PLAYBACK AND PISHING REDUCES FORAGING ACTIVITY OF WINTERING BIRDS
- Michelson, C. I.; Clark, R. G.; Morrissey, C. A.: AGRICUL-TURAL INTENSIFICATION DOES NOT DISRUPT THE PICKY EATING HABITS OF TREE SWALLOWS (TACHYCINETA BICOLOR)
- 7 Shouse, R. A.; Chandler, C. R.: EFFECTS OF HABITAT FRAG-MENTATION ON AVIAN MOBBING BEHAVIOR
- 9 Turbek, S. P.; Pruett, M. S.; Bowman, R.: THE EFFECT OF HABITAT-ASSOCIATED PREDATION RISK ON THE NEST-LING PROVISIONING RATES AND BEGGING BEHAVIOR OF FLORIDA SCRUB-JAYS
- 11 Albrecht-Mallinger, D.: CONSPECIFIC ATTRACTION IN A LOW-DENSITY POPULATION OF A DECLINING SONGBIRD

C02P Climate Change/Distribution

- Smith, S. H.; Urban, E. H.; Heath, J. A.: THE EFFECT OF CLI-MATE CHANGE ON AVAILABLE RESOURCES FOR AMERI-CAN KESTRELS (FALCO SPARVERIUS) IN SOUTHWESTERN IDAHO.
- 15 **Jones, K. N.**; Rivers, J. W.; Betts, M. G.: NEGATIVE EFFECTS OF INTENSIVE FOREST MANAGEMENT ON REPRODUCTIVE SUCCESS IN A CAVITY-NESTING SONGBIRD
- 17 **Clark, A. B.**; McGowan, K. J.; Zajac, M.; Schlosser, J.: DATE AND RECENT WEATHER AS FACTORS IN NEST INITIATION DECISIONS OF AMERICAN CROWS

C03P Community Ecology/Landscape Ecology

- 19 Smith, C. J.; Johnson, M. J.; Milligan, M. C.; Wendt, C.; Gichuiki, P.; MacDonald, S.: BIRD COMMUNITY DYNAMICS ON KENYAN COFFEE FARMS
- 21 **Harrod, S. E.**; Green, M. C.; Weckerly, F. W.; Simpson, T. R.: THE EFFECTS OF LANDSCAPE CHARACTERISTICS ON NESTING ECOLOGY OF CAVITY-NESTING BIRDS

C04P Evolution

- 23 **Ricono, A.**; Spern, C.; Winker, K.; Pruett, C. L.: EFFECTS OF COLONIZATION AND ISOLATION ON THE POPULATION GENETICS OF PACIFIC WRENS
- 25 Kovach, A. I.; Hatcher , P.; Kordonowy, L.; Okamoto, K.; Ramsdell, J.; Solorzano, E.; Walsh, J.; Thomas, W. K.: COMPARATIVE ANALYSIS OF TWO TIDAL MARSH BIRD GENOMES
- 27 Trahan, K. J.; Cuervo, A. M.: LATITUDINAL GEOGRAPHI-CAL VARIATION IN SEXUAL DIMORPHISM IN A TROPICAL MONTANE BIRD (FURNARIIDAE: PSEUDOCOLAPTES BOIS-SONNEAUTII)

C05P Conservation

- 29 Mangan, A. M.; Pejchar, L.; Werner, S. J.: ASSESSING BIRD-MEDIATED ECOSYSTEM SERVICES AND DISSERVICES IN COLORADO ORCHARDS
- 31 **Gifford, G. L.**; Rodewald, A. D.: FOREST BIRD CONSERVA-TION IN TROPICAL AGROECOSYSTEMS USING EBIRD AND OCCUPANCY MODELING
- 33 **Cooper, J. C.**; Powell, L. L.; Wolfe, J. D.: A RAPID ASSESS-MENT OF THE AVIFAUNA OF EQUATORIAL GUINEA: DETERMINING SPECIES COMPOSITION OF A RAPIDLY DEVELOPING CENTRAL AFRICAN NATION
- 35 Yackel Adams, A. A.; Mazurek, M. J.; Reed, R. N.; Klug, P. E.; Cruce, J.: ASSESSING LOCALIZED BROWN TREESNAKE SUPPRESSION ON THE GUAM NATIONAL WILDLIFE REFUGE TO SUPPORT THE RECOVERY OF LISTED AVIAN SPECIES
- 37 **Carlisle, J. D.**; Chalfoun, A. D.: DOES GREATER SAGE-GROUSE BREEDING DENSITY PREDICT SAGEBRUSH-ASSO-CIATED SONGBIRD ABUNDANCE?
- 39 Elizondo, L.; Maple, A.; Loss, S. R.: INVESTIGATION OF FREE-RANGING DOMESTIC CAT ABUNDANCE IN STILL-WATER, OKLAHOMA: POTENTIAL ASSOCIATIONS WITH HUMAN POPULATION DENSITY AND BIRD ABUNDANCE
- 41 **Noel, B. L.**; Small, A.; Brush, J.; Schwarzer, A.: POTENTIAL TECHNIQUES FOR INCREASING AMERICAN OYSTER-CATCHER HATCH SUCCESS THROUGH SHELL RAKE ENHANCEMENT
- 43 Neiles, B. Y.; Sparling, D. W.; Nielsen, C. K.: AVIAN AND PREDATOR USE OF CP33 FIELD BUFFERS IN SOUTHERN ILLINOIS
- 45 Rosenberg, K. V.; Marra, P. P.: NEW INSIGHTS INTO WIN-TER DISTRIBUTION AND NATURAL HISTORY OF NEO-TROPICAL MIGRATORY BIRDS

C06P Migration & Stopover/Movements & Dispersal

- 47 Zenzal, T. J.; Diehl, R. H.; Ward, M. P.; **Moore, F. R.**; Schofield, L. N.; Deppe, J. L.: DEPARTURE DECISIONS OF RUBY-THROATED HUMMINGBIRDS DURING AUTUMN MIGRATION
- 49 McKellar, A. E.; Burger, J.; Niles, L. J.; Porter, R. R.; Smith, P. A.: IDENTIFYING THE IMPORTANCE OF THE NELSON RIVER AREA AS A SPRING STAGING SITE FOR RED KNOT AND OTHER SHOREBIRDS
- 51 **Thorup, K.**: USING SATELLITE TELEMETRY TO STUDY MIGRATORY ORIENTATION
- 53 Fomina, C.; Marshall, J. S.: ROLES OF MIGRANT AND RESI-DENT BIRDS IN THE SPREAD OF INVASIVE HONEYSUCKLE
- 55 Beason, J. P.; Levandoski, G. J.; Sparks, R. A.: WESTERN TANAGER MIGRATION RESEARCH AT ROCKY MOUNTAIN NATIONAL PARK IN COLORADO
- 57 **Pierce, A. K.**; Dinsmore, S. J.; Jorgensen, D.; Wunder, M. B.: MOUNTAIN PLOVERS MIGRATE SHORT DISTANCES AND USE STOPOVER SITES

C07P Phylogeography / Biogeography

59 Wang, S. Y.; Battey, C. J.; Klicka, J.: BIOGEOGRAPHY OF THE GREAT-TAILED/BOAT-TAILED GRACKLE AVIAN SPECIES COMPLEX

C08P Population Ecology & Demography

- 61 **Reidy, J. L.**; Thompson, F. R.; O'Donnell, L.: HABITAT AND LANDSCAPE FACTORS AFFECTING DENSITY OF GOLDEN-CHEEKED WARBLERS ON THE BALCONES CANYONLANDS PRESERVE, TEXAS
- 63 **Powell, L. L.**; Cooper, N. W.; Marra, P. P.: COMPETITION EXPERIMENTS BETWEEN WINTERING AMERICAN REDSTARTS AND RESIDENT YELLOW WARBLERS IN JAMAICAN MANGROVE FOREST
- 65 **Hepp, M. G.**; Green, D. J.; van Oort, H.; Suzanne Beauchesne, S.; Cooper, J.: IMPACT OF RESERVOIR OPERATIONS ON JUVENILE SURVIVAL OF A RIPARIAN OBLIGATE SONGBIRD

C09P Models And Methods

- 67 **Leist, A. J.**; Fletcher, D. M.: LOWER COLORADO RIVER RIPARIAN BIRDS PROJECT: TESTING AN ASSUMPTION OF THE DOUBLE-SAMPLING METHOD
- 69 Zlonis, E.; Bednar, J.; Panci, H.; Niemi, G. J.: IDENTIFICATION OF HABITATS AND LANDSCAPES ASSOCIATED WITH BIRD SPECIES IN LOWLAND-CONIFER FORESTS OF THE AGAS-SIZ LOWLAND SUBSECTION
- 71 Sanchez-Clavijo, L. M.; Hearns, J.; Quintana-Ascencio, P. F.: ECOLOGICAL TRAPS: MODELING HABITAT SELECTION FOR BIRDS IN HETEROGENEOUS LANDSCAPES.

C10P Foraging Ecology

- 73 **Wunderle, J. M.**; Lebow, P. K.; Powell, A.; Bearhop, S.; Rockwell, S. M.; Marra, P. P.; White, J. D.; Currie, D.; Ewert, D. N.: STABLE ISOTOPES REVEAL INCREASES OVER THE WINTER IN THE PROPORTION OF PREDACEOUS ARTHROPODS IN THE DIET OF KIRTLAND'S WARBLERS
- 75 **Reichert, A.**; Hayward, J. L.; Henson, S. M.: THE BEHAVIOR OF GLAUCOUS-WINGED GULL EGG CANNIBALS
- 77 **Smith, S. B.**; Merchant, C. R.; Saless, R. E.; Sood, H.; Pagano, T.: NUTRITIONAL COMPOSITION OF NATIVE AND INVASIVE FRUITS CONSUMED BY MIGRATING BIRDS AT STOPOVER SITES IN THE WESTERN FINGER LAKES REGION OF NEW YORK

C11P Habitat Relationships

- 79 Milligan, M.; Johnson, M.; Garfinkel, M.; Smith, C.; Njoroge, P.: QUANTIFYING PEST CONTROL SERVICES ON KENYAN COFFEE FARMS
- 81 **Kasahara, S.**: DISTRIBUTION AND NEST-SITE PREFER-ENCES OF TWO SYMPATRIC PLOVERS, *CHARADRIUS PLACIDUS* AND *CHARADRIUS DUBIUS*, ON THREE RIVERS IN CENTRAL JAPAN.
- 83 **Kellermann, J. L.**; Lajoie, J. L.; Mohren, S.: BLACK-BACKED WOODPECKER DISTRIBUTION AND HABITAT SELECTION IN CRATER LAKE NATIONAL PARK, OR

85 **Farley-Dawson, E. A.**; Schmidt, K. A.: USE OF A NOVEL NEST SUBSTRATE IN A NEOTROPICAL MIGRATORY BIRD, THE VEERY (CATHARUS FUSCESCENS)

- 87 **Mount, A. R.**: SNAG RETENTION AND HABITAT DYNAMICS FOR LARGE CAVITY NESTING BIRDS
- 89 Chace, J. F.; Cruz, A.; Vinton, A. C.; Swanson, H. M.: A CEN-TURY OF BIRD POPULATION CHANGE IN THE CONIFER-OUS FORESTS OF THE COLORADO FRONT RANGE

C12P Disease & Parasites

- 91 Grond, K.; Lanctot, R. B.; Santo Domingo, J. W.; Ryu, H.; Sandercock, B. K.: LINKING GUT MICROBIOTA COMPOSITION TO LIFE-HISTORY AND INDIVIDUAL QUALITY OF ARCTIC-BREEDING SHOREBIRDS
- 93 Slowinski, S. P.; Whittaker, D. J.; Soini, H. A.; Novotny, M. V.; Mettler, R.; Spellman, G. M.; Ketterson, E. D.: THE EFFECT OF HAEMOSPORIDIAN INFECTIONS ON THE PRODUCTION OF VOLATILE COMPOUNDS IN THE AVIAN PREEN GLAND

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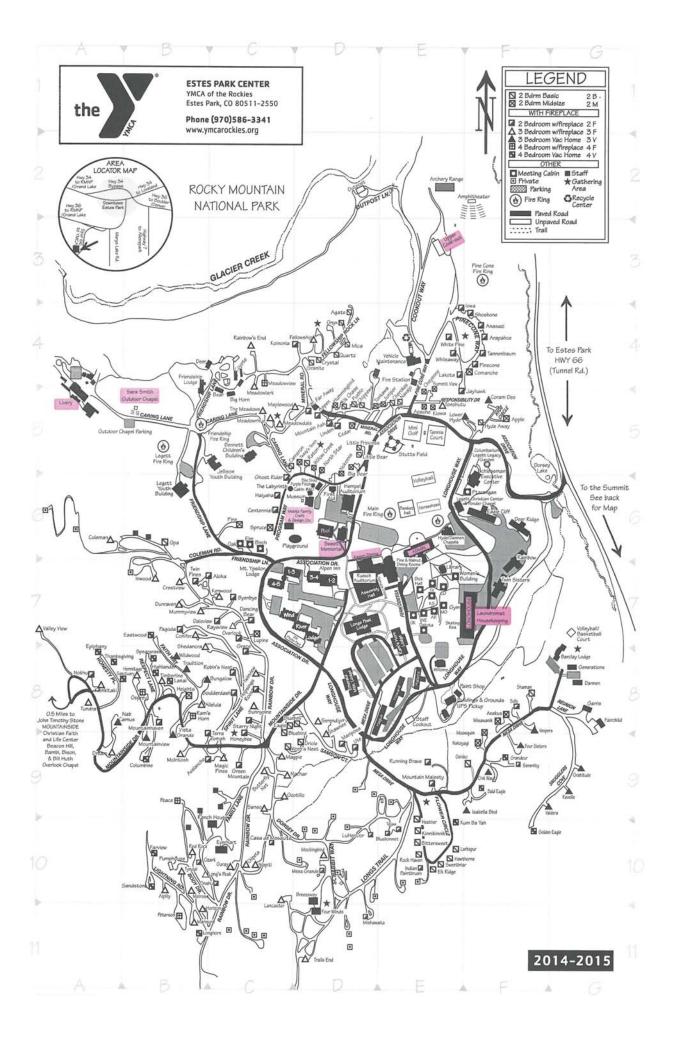
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