



Schedule

Thursday, October 6

Welcome, Plenary

Great Hall 1 & 2

- 8:00 – 8:20 am Welcome by Duluth Mayor Don Ness and Dr. Gerald Niemi
- 8:20 – 9:20 am Plenary Speaker—**Dr. Scott Lanyon**, Insights from the Avian Tree of Life
- 9:20 – 9:40 am Coffee Break

SYMPOSIA

Short-eared Owls: The Need for a Conservation Plan

Great Hall 1

Moderator: Geoff Holroyd

- 9:40 am **Travis L. Booms** and James A. Johnson
Lessons from the Alaska Short-eared Owl Migration Study
- 10:00 am **Jeffrey L. Lincer**
A Contribution from the World Literature of the Short-eared Owl
(*Asio flammeus*)
- 10:20 am Kristen L. Keyes, **Marcel A. Gahbauer**, Kurt Hennige, and David M. Bird
Short-eared Owl (*Asio flammeus*) Occupancy, Detectability and Habitat Use
Across Seasons on Amherst Island and Wolfe Island in Eastern Ontario,
Canada
- 10:40 am **Geoff L. Holroyd** and Helen E. Trefry
The Need for a North American Conservation Action Plan for the
Short-eared Owl
- 11:00 am **Kristen L. Keyes**, Marcel A. Gahbauer and David M. Bird
Short-eared Owl (*Asio flammeus*) Nest Site Characteristics, Success and
Associated Threats on Amherst Island and Wolfe Island in Eastern Ontario,
Canada
- 11:20 am **Scott R. Swengel**
Short-eared Owl Occurrence on Grassland Bird Surveys in Seven
Midwestern States During 1988-2010
- 11:40 am **David A. Wiggins**
Conservation Status of Short-eared Owls (*Asio flammeus*)
in the United States and Canada
- 12:00 – 1:40 pm Lunch (Shuttles to Hawk Ridge)



{ * = denotes Student Award Candidate
BOLD = presenter



SYMPOSIA

Breeding Ecology, Distribution, and Movements of *Aegolius* Owls

Great Hall 1

Moderator: **Scott Weidensaul**

- 1:40 pm **Tim Hipkiss**, Jonas Gustafsson, Ulf Elkund, Katie Andrie, and Birger Hornfeldt
The Fluctuations and Decline of Tengmalm's Owls in Northern Sweden
- 2:00 pm **Kathrin J. Munro**, Ian G. Warkentin and Christine M. Doucet
Evaluation of Habitat Characteristics and a Habitat Suitability Index Model
for Boreal Owls (*Aegolius funereus*) in Western Newfoundland, Canada
- 2:20 pm **Jonathan Gagnon**, Marion Seguy, Louis Imbeau, and Marc J. Mazerolle
Landscape Composition and Year Effects on Northern Saw-whet Owl Diet
in Boreal Québec
- 2:40 pm **Chuck Priestley** and Geoffrey Holroyd
Inferred Autumn Movements of Northern Saw-whet Owls (*Aegolius
acadicus*) based on Stable Hydrogen Isotope Analyses of Feathers Collected
at Beaverhill Lake, Alberta
- 3:00 pm **C. Scott Weidensaul**, Anna Fasoli, Andrew Weber, Kim Romano, and Annah Panci
Nocturnal Activity Range and Behavior in Migrant and Wintering Northern
Saw-whet Owls (*Aegolius acadicus*) in the Central Appalachians
- 3:20 – 3:40 pm Coffee Break
- 3:40 pm Aura Stauffer and **C. Scott Weidensaul**
Autumn Roost Site Selection in Migrant Northern Saw-whet Owls
(*Aegolius acadicus*) in the Central Appalachians
- 4:00 pm **Chris Neri** and Nova Mackentley
Summer Movements of Juvenile Northern Saw-whet Owls
(*Aegolius acadicus*) at Whitefish Point, Michigan
- 4:20 pm Charlie E. Miller and **David A. Wiggins**
Breeding Ecology of Northern Saw-whet Owls (*Aegolius acadicus*) at an
Isolated Great Plains Site
- 4:40 pm **Mohammad M. Chowdhury**
Owls in Bangladesh – Past, Present and Future
- 5:00 pm **Geoff Holroyd** and Helen E. Trefry
Winter Destinations and Breeding Dispersal of Canadian Burrowing Owls
- 6:00 - 8:00 pm **Poster Session in VIKING ROOM**

GENERAL SESSION I

Great Hall 2

Moderator: **Joseph B. Platt**

- 9:40 am Scott J. Chiavacci, Kyle E. Pias and **James F. Dwyer**
From Duluth to Duluth: How Has the Focus of Raptor Research Changed
Since 1995?



- 10:00 am **Laura R. Nagy**, Chris Farmer and Karl Kosciuch
Eagle Fatalities in the United States: Data, Data Gaps and Implications
- 10:20 am **Sarah K. Thomsen** and Laurie Harvey
Population Dynamics and Diet of an Island Population of Barn Owls (*Tyto alba*)
- 10:40 am **Adam E. Duerr**, David Allaben, Tim Linder, Daniel Thomas, Scott Barras, Jeff Cooper, Ray Fernald, Sergio Harding, and Jeanette Parker
Dispersal of Black Vultures in Response to Culling
- 11:00 am Martin Gilbert, **Ruth E. Tingay**, Nadia Sureda, Loslomaa Jambal, Batmunkh Davaasuren, and Gombobaatar Sunde
Distribution and Status of the Pallas's Fish Eagle in Mongolia: A Cause for Conservation Concern?
- 11:20 am **Robert N. Rosenfield**, Travis L. Boom, Kurt L. Burnham, Brian J. McCaffery
The Potential for Long-term Monitoring of Gyrfalcon and Peregrine Falcon Breeding Populations using Undergraduate Students: an Apparent Inexhaustible Source of Funding
- 11:40 am **William S. Clark**
Harlan's Hawks Are and Have Been Breeding within the Red-tailed Hawk Range in Western Canada
- 12:00 – 1:40 pm Lunch (Shuttles to Hawk Ridge)



ANDERSEN AWARDS SESSION

Andersen Student Presentation Award Session

Great Hall 2

Moderator: **Clint W. Boal**

- 1:40 pm **Clint W. Boal**
Overview of Awards Given by the Raptor Research Foundation and Introduction to the Andersen Award Special Session
- 2:00 pm ***Jenna A. Cava**, Andrew C. Stewart and Robert N. Rosenfield
Diet of Urban Breeding Cooper's Hawks (*Accipiter cooperii*) in Victoria, British Columbia
- 2:20 pm ***Scott A. Graham** and Mark R. Fuller
Barred Owl Diet in the Central Coast Range of Western Oregon
- 2:40 pm ***Kristen L. Keyes**, Marcel A. Gahbauer, Keith A. Hobson, Steven L. Van Wilgenburg, and David M. Bird
Short-eared Owl (*Asio flammeus*) Spatial Origins Across North America: A Stable Isotope Approach
- 3:00 pm ***Tricia A. Miller**, Michael J. Lanzone, Todd E. Katzner, David Brandes, Charles Maisonneuve, Junior Tremblay, Jeff Cooper, Kieran O'Malley, and Robert P. Books
Striking a Balance: Modeling Migration of Golden Eagles (*Aquila chrysaetos*) Through Wind Energy Developments of the Central Appalachian Mountains, U.S.A.
- 3:20 – 3:40 pm Coffee Break



- 3:40 pm ***Kyle E. Pias** and Wiley M. Kitchens
Foraging Ecology of Breeding Snail Kites (*Rostrhamus sociabilis plumbeus*)
on the Kissimmee Chain of Lakes, Florida
- 4:00 pm ***Ben R. Skipper** and Clint W. Boal
Is Aggressive Nest Defense by Urban Mississippi Kites (*Ictinia mississippiensis*)
Triggered by Landscape Features?
- 4:20 pm ***Douglas J. Tempel** and Ralph J. Gutierrez
Site Occupancy Dynamics of a California Spotted Owl Population
(*Strix occidentalis occidentalis*) in the Central Sierra Nevada
- 4:40 pm ***Jean-Francois Therrien**, Gilles Gauthier and Joel Bety
Avian Predators Play a Key Role in Population Regulation and Energy Flux
of the Arctic Tundra Food Web
- 5:00 pm Andersen Judge's Meeting

6:00 - 8:00 pm **Poster Session in VIKING ROOM**

Evening Speakers

Great Hall 1 & 2

Moderator: Dan Varland

- 8:00 - 8:30 pm **William Clark**, Unusual Raptor Plumages: Albinism, Melanism, Hybrids, Dilute
Plumage, and Others
- 8:30 - 9:00 pm **Denver Holt**, Snowy Owls: An Overview of Twenty Years of Breeding Season
Research in Barrow, Alaska

Friday, October 7

SYMPOSIA

Ecology and Conservation of Eastern North American Golden Eagles

Great Hall 1

Moderator: Charles Maisonneuve

- 8:00 am **Todd Katzner**, Brian W. Smith, Tricia A. Miller, Robert P. Brooks, David Brandes,
Jeff Cooper, Michael Lanzone, Dan Brauning, Christopher Farmer, Sergio Harding,
David E. Kramar, Craig Koppie, Charles Maisonneuve, Mark Martell,
Elizabeth K. Mojica, Bryan D. Watts, Charlie Todd, Junior A. Tremblay, Maria
Wheeler, Brady Porter, David F. Brinker, Tony E. Chubbs, Rolf Gubler, Kieran
O'Malley, Scott Mehus, and Keith L. Bildstein
Status, Biology and Conservation Priorities for North America's Eastern
Golden Eagle (*Aquila chrysaetos*) Population
- 8:20 am Francois Morneau, Benoit Gagnon, Sandie Poliquin, Pierre Lamothe, Natalie
D'Astous, and **Junior A. Tremblay**
Breeding Status and Population Trends of Golden Eagles in Northeastern
Québec Over a 14-yr Period
- 8:40 am **Charles Maisonneuve**, Junior A. Tremblay, Trish Miller, Todd Katzner, Mike
Lanzone, and Dave Brandes
Variation in Home Range Sizes of Golden Eagles (*Aquila chrysaetos canadensis*)
Breeding in Québec



- 9:00 am **Tricia A. Miller**, Michael J. Lanzone, David Brandes, Charles Maisonneuve, Jeff Cooper, Kieran O'Malley, Robert P. Brooks, and Todd E. Katzner
Characteristics of Spring Migration of Golden Eagles (*Aquila chrysaetos*) through Eastern North America as Determined by GPS-GSM and Conventional Satellite Telemetry
- 9:20 am **David Brandes**, Charles Maisonneuve, Junior Tremblay, Tricia Miller, Todd Katzner, and Michael Lanzone
Influence of High-Latitude Warming on Fall Migration Timing of Eastern Golden Eagles (*Aquila chrysaetos*)
- 9:40 am **Jeff Cooper**, Trish Miller, Todd Katzner, Michael Lanzone, David Kramar, Kieran O'Malley, Charles Maisonneuve, and Junior Tremblay
Winter Ranging Behavior of Golden Eagles (*Aquila chrysaetos*) in the Central Appalachian Mountains
- 10:00 – 10:20 am Coffee Break
- 10:20 am **Mark Martell**, Elizabeth K. Mojica and Scott Mehus
Tracking Golden Eagle Migration on the Geographic Outskirts of the Eastern North American Population
- 10:40 am **Maria Wheeler**, Brady Porter and Todd Katzner
Assessing the Genetic Diversity and Distinctness of Eastern North American Golden Eagles
- 11:00 am **Craig A. Koppie** and Brian A. Millsap
U.S. Fish & Wildlife Service Perspectives on the Golden Eagle (*Aquila chrysaetos*) in the Eastern United States
- 11:20 am **Renee Rivard**, Dave Bittner, Chris Meador, Jeffrey L. Lincer, and Jim Hannan
Conducting Aerial Surveys for Golden Eagles (*Aquila chrysaetos*): Techniques for Optimal Data Collection and Interpretation
- 11:40 am **Kyle H. Elliott** and John E. Elliott
Bald Eagles and Chum Salmon: Reduced Winter Survival and Breeding Success Leads to Density-Dependence
- 12:00 – 1:40 pm Lunch (Shuttles to Hawk Ridge)

GENERAL SESSION II

Bald and Golden Eagles

Great Hall 1

Moderator: Renee Rivard

- 1:40 pm **Chris B. Meador**, John Oakley, Dave Bittner, James Newland, Jim Hannan, Jeffrey L. Lincer, Renee Rivard, Jeff Laws, and Jeff Wells
Prey Selection of Nesting Golden Eagles (*Aquila chrysaetos*): The Rich Diversity Documented During Nest Content Data Collection in and Around San Diego County
- 2:00 pm **Stephen B. Lewis** and Michelle Kissling
Bald Eagle (*Haliaeetus leucocephalus*) Space Use in a Recently-Deglaciated Coastal Fjord, Icy Bay, Alaska



- 2:20 pm **Cathleen D. Monson**, Kelly J. McKay, Robert R. Bryant, Brian P. Ritter, Jason L. Monson, Brian L. Blevins, Jennifer A. Rothe, Marc J. Bolinger, and Ryan T. Schmitz
Summary and Results of the Milan Bottoms Bald Eagle Night Roost Survey Project
- 2:40 pm **Adam E. Duerr**, Tricia A. Miller, Michael Lanzone, Jeff Cooper, Phil Turk, Todd Katzner
High Frequency GPS-GSM Telemetry to Measure Migration Speed: Do Golden Eagles Migrate Faster When Using Orographic or Thermal Lift?
- 3:00 pm **Renee Rivard**, Dave Bittner, Chris Meador, Jeffrey L. Lincer, James Newland, Jim Hannan, and Jeff Wells
Evaluating Population Proportions: Golden Eagle (*Aquila chrysaetos*) versus Red-tailed Hawk (*Buteo jamaicensis*) and Great Horned Owl (*Bubo virginianus*) Active Core Nesting Areas in Desert Environments
- 3:20 – 3:40 pm Coffee Break

GENERAL SESSION III

Great Hall 1

- 3:40 pm **Chris B. Meador**, Dave Bittner, James Newland, Jim Hannan, Jeffrey L. Lincer, Renee Rivard, Jeff Laws, and Jeff Wells
Golden Eagle (*Aquila chrysaetos*) Nesting Ecology: A Detailed Look in San Diego County Using a Data Set from Over 100 Years of Nesting History
- 4:00 pm **Michael N. Kochert** and Karen Steenhof
Long-term Reproduction of Golden Eagles in Relation to Habitat Alteration in Southwestern Idaho
- 4:20 pm **Frank B. Isaacs** and Robert G. Anthony
Bald Eagles (*Haliaeetus leucocephalus*) Nesting in Oregon and Along the Lower Columbia River, 1978-2007
- 4:40 pm **Steve K. Windels**
Bald Eagles as Agents of Cormorant Control in Northern Minnesota
- 5:00 pm **Peter P. Datema**, William W. Bowerman, William C. Bridges, Teryl G. Grubb, and Lisa L. Williams
A Reevaluation of Great Lakes Fish Passage and Effects on Bald Eagles Nesting along the Au Sable, Manistee and Muskegon Rivers

SYMPOSIA

Pesticides and Metals in Raptors

Great Hall 2

Moderator: Jeffrey Lincer

- 8:00 am **Steven Bradbury**
Raptors and the Regulation of Pesticides
- 8:20 am **William W. Bowerman**, David A. Best, Latice Fuentes, William C. Bridges, James G. Sikarskie, Teryl G. Grubb, and Leland A. Grim
Monitoring Concentrations of Organochlorine Pesticides in Plasma of Nestling Bald Eagles (*Haliaeetus leucocephalus*) in the Great Lakes Region



- 8:40 am **L. Joseph Burnett**, Kelly J. Sorenson, Joseph Brandt, David B. Crane, Kathleen Regaldo, and Robert W. Risebrough
Eggshell Thinning of California Condors Reintroduced to Central California
- 9:00 am **Robert W. Risebrough** and L. Joseph Burnett
Exposure of Raptors to Environmental Organic Contaminants: Unanswered Questions
- 9:20 am **Sofi R. Hindmarch**
Investigating the Potential Risk of Secondary Rodenticide Poisoning to Urban Owls Inhabiting and Foraging in Urban Landscapes of Lower Mainland, British Columbia
- 9:40 am **Ruth E. Tingay**
The Effect of Carbofuran Poisoning and Other Illegal Persecution Methods on Raptor Populations in Scotland
- 10:00 – 10:20 am Coffee Break
- 10:20 am **John E. Elliott** and Laurie K. Wilson
Insecticide Poisoning of Raptors in Agricultural Areas of Southwestern British Columbia
- 10:40 am **John W. Nichols**, Richard S. Bennett, Ronald Rossman, John B. French, and Keith G. Sappington
A Physiologically-based Model for Methylmercury Uptake and Accumulation in Female American Kestrels
- 11:00 am **Michael Fry**
Mitigating the Injurious Effects of Rodenticides to Raptors
- 11:20 am **Michael Fry**
Pesticide Exposure Case Files of Raptors in the Avian Incident Monitoring System (AIMS) Database of American Bird Conservancy
- 11:40 am **Jeffrey L. Lincer**
Round Table Discussion Synthesizing the Chemical Threats to Raptors
- 12:00 – 1:40 pm Lunch (Shuttles to Hawk Ridge)

SYMPOSIA

Raptors and Wind Energy

Great Hall 2

Moderator: Anna Peterson

- 1:40 pm **Dave Bittner**, Chris Meador, Jim Hannan, Jeffrey L. Lincer, Jeff Laws, James Newland, Renee Rivard, and Jeff Wells
Natal Dispersal of Golden Eagles (*Aquila chrysaetos*) from Southern California 1988 – 2011
- 2:00 pm **David Brandes**, Luis Barrios and Alejandro Rodriguez
Modeling the Interaction of Terrain and Wind to Quantify High-Risk Conditions for Eurasian Griffon Vultures (*Gyps fulvus*) at Wind Farms



- 2:20 pm **Allen E. Graber**, Thomas J. Koronkiewicz, Eric W. Koster, and Chad L. Cross
Pre-Construction Methodologies Used for Assessing Golden Eagle Use at
Proposed Wind Energy Development Sites in the Western United States
- 2:40 pm **Heidi Seeland**, Gerald Niemi, Ronald Regal, and Anna Peterson
Methods for Determination of Raptor Migratory Pathways over a Large
Landscape
- 3:00 pm **Anna Peterson** and Gerald Niemi
The Conservation of Airspace and Habitat in a Major Migration Corridor
- 3:20 – 3:40 pm Coffee Break
- 3:40 pm **Torgeir Nygård**
Movement Patterns and Collision Risks of Juvenile White-tailed Eagle
(*Haliaeetus albicilla*) Studied by GPS Satellite Telemetry at Smøla Wind
Power Plant, Norway
- 4:00 pm **Joel E. Pagel**, Brian A. Millsap, Eric Kershner, Scott Covington, and Robert Murphy
Known Eagle Mortality at Wind Turbine Technology Facilities in the
Western U.S.
- 4:20 pm **Laura R. Nagy**, Richard Young and Kevin Harper
Use of Behavioral Data of Wintering Bald Eagles to Alter Wind Turbine
Locations at the Rockland Wind Farm, Idaho
- 4:40 pm **Joseph B. Platt**
Lessons Learned from Raptor Interaction with Wind and Transmission Projects
- 5:00 pm **Carol L. McIntyre**, Jeff P. Smith, Michael W. Collopy, David C. Douglas, and
Jon Paynter
Potential Conflicts Between Energy Development Projects and Migratory
Golden Eagles (*Aquila chrysaetos*): A Northern Perspective

Saturday, October 8

GENERAL SESSION IV

Great Hall 1

Moderator: Mark Martell

- 8:00 am **Sara J. Miller**, Cheryl R. Dykstra, Melinda M. Simon, Jeff L. Hays, and James C.
Bendarz
Use of Video Monitoring to Study Nesting Ecology of Red-shouldered
Hawks (*Buteo lineatus*) in Suburban Cincinnati, Ohio
- 8:20 am **Michael Lanzone**, Casey Halverson, Tricia A. Miller, Phillip J. Turk, David
Brandes, and Todd E. Katzner
High Frequency GSM Telemetry Provides New Insights into Raptor
Behavior and Ecology
- 8:40 am **Eric G. Nolte**, Julie A. Heath and Gregory S. Kaltenecker
What Effect Does Detectability Have on Statistical Power in Analysis of
Raptor Migration Counts?



- 9:00 am **Katherine E. Koch**
Advancing Conservation of Raptors through the Midwest Coordinated Bird Monitoring Partnership
- 9:20 am **Oliver Krone** and Miriam Nadjafzadeh
Food Composition and Seasonal Preferences of White-tailed Sea Eagles (*Haliaeetus albicilla*) in Northern Germany
- 9:40 am Troy J. Bader and **James C. Bednarz**
Parental Care and Diet of Mississippi Kites (*Ictinia mississippiensis*) in Eastern Arkansas
- 10:00 – 10:20 Coffee Break

GENERAL SESSION VI

Great Hall 1

Moderator: Mark Martell

- 10:20 am **John D. Baldwin**, Jason W. Bosley, Lori Oberhofer, Oron L. Bass, and Brian K. Mealey
Long-term Changes in Bald Eagle Reproduction in Florida Bay, Southern Coastal Everglades, 1958-2010
- 10:40 am **Jason W. Bosley**, John D. Baldwin and Erik G. Noonburg
A Territorial Occupancy Model for Bald Eagles (*Haliaeetus leucocephalus*) in Florida Bay, Everglades National Park
- 11:00 am **Matthew R. Hanson**, John D. Baldwin and O.L. Bass
Food Habits of Breeding Bald Eagles (*Haliaeetus Leucocephalus*) in Florida Bay, Everglades National Park
- 11:20 am **David M. Bird** and Dominique Chabot
Unmanned Vehicle Systems: A Future Tool for Raptor Research and Management?
- 11:45 – 12:45 pm **RRF Business Meeting** in GREAT HALL 1



GENERAL SESSION V

Great Hall 2

Moderator: Chuck Priestley

- 8:00 am **Rebecca Perkins**, Clint Boal and Dale Rollins
The Use and Results of a Trained Northern Goshawk (*Accipiter gentilis*) to Study Predator-Prey Interactions
- 8:20 am **David E. Andersen**, Jason E. Bruggeman, James E. Woodford, and Clint W. Boal
Northern Goshawk Population Size in the Western Great Lakes Region



- 8:40 am **James R. Klucsarits** and Joshua J. Rusbuldt
Nest Box Selection in Eastern Pennsylvanian American Kestrels
(*Falco sparverius*): What Constitutes an Ideal Next Box Habitat?
- 9:00 am **Joseph G. Barnes** and Jef R. Jaeger
Assessing Peregrine Falcon (*Falco peregrinus*) Predator-Prey Dynamics in
Lake Mead National Recreation Area
- 9:20 am **Dave Bittner**, Chris Meador, Renee Rivard, Jeffrey L. Lincer, Brittany
Schlofeldt, and Jeff Wells
Peregrine Falcon (*Falco peregrinus*) Nesting Increases in Southern
California, Baja and Nevada Desert Environments 2009-2011
- 9:40 am **Jean Lapointe**, Louis Imbeau, Marc J. Mazerolle, Junior A. Tremblay, and
Charles Maisonneuve
The Impact of Corn and Soybean Fields on Habitat Use of Female Peregrine
Falcons (*Falco peregrinus anatum*) During the Breeding Season
- 10:00 – 10:20 am Coffee Break

GENERAL SESSION VII

Great Hall 2

Moderator: Chuck Priestley

- 10:20 am **Sean McCann**, Tanya Jones, Onour Moeri, Gerhard Gries, and Sean O'Donnell
Is the Red-throated Caracara Chemically Defended from its Stinging Prey?
- 10:40 am **Eric D. Forsman**, Robert G. Anthony, Katie M. Dugger, and Elizabeth M. Glenn
Population Demography of the Northern Spotted Owl
(*Strix occidentalis caurina*)
- 11:00 am **Jane Noll West**
Owl Occurrence in Several of El Salvador's Protected Areas
- 11:20 am **Christian Hagenlocher**
Breeding Ecology of Cliff-nesting Peregrine Falcons in Southern Illinois
- 11:45 – 12:45 pm **RRF Business Meeting** in GREAT HALL 1

****NOTE: Icons next to Paper Abstracts denote inclusion in Special Symposia:**



RAPTORS AND WIND ENERGY



SHORT-EARED OWLS: THE NEED FOR A
CONTINENTAL CONSERVATION PLAN



ECOLOGY AND CONSERVATION OF
EASTERN NORTH AMERICAN
GOLDEN EAGLES



PESTICIDES & METALS IN RAPTORS



BREEDING ECOLOGY, DISTRIBUTION,
AND MOVEMENTS OF *AEGOLIUS* OWLS



ANDERSEN AWARD